



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 457126

TO: Sarvamangala Devi
Art Unit: 1645
Location: REM 3C18
Serial Number: 10/054536

Tuesday, June 21, 2005

From: Beverly Shears
Location: Biotech-Chem Library
REM 1A54
Phone: 571-272-2528
beverly.shears@uspto.gov

Search Notes

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157126

Shears, Beverly

From: Devi, Sarvamangala
Sent: Friday, June 17, 2005 7:42 AM
To: Shears, Beverly
Subject: 10/054,536

Beverly:

In application 10/054,536, please perform a sequence search for SEQ ID NO: 2 in commercial and pending databases.

Thanx.

S. DEVI, Ph.D.
AU 1645
Rems - 3C18

BEST AVAILABLE COPY

Date completed: _____
Searcher: Beverly e 2528
Terminal time: _____
Elapsed time: _____
CPU time: _____
Total time: _____
Number of Searches: _____
Number of Databases: _____

Search Site
____ STIC
____ CM-1
____ Pre-S
Type of Search
____ N.A. Sequence
____ A.A. Sequence
____ Structure
____ Bibliographic

Vendors
____ IG
____ STN
____ Dialog
____ APS
____ Geninfo
____ SDC
____ DARC/Questel
____ Other CGN

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5	747	100.0	1638	6	CQ875888	CQ875888 Sequence
6	747	100.0	1638	6	CQ875891	CQ875891 Sequence
7	747	100.0	1638	6	CQ875893	CQ875893 Sequence
8	747	100.0	1638	9	H0SA1577	Y16577 Homo sapien
9	747	100.0	1638	9	H0SA1580	Y16580 Homo sapien
10	747	100.0	1638	9	H0SA1581	Y16581 Homo sapien
11	747	100.0	3605	6	E27636	E27636 Recombinant
12	747	100.0	3605	6	AX411061	AX411061 Sequence
13	747	100.0	3605	9	HSMBPC	Y15422 Human mRNA
14	745.4	99.8	960	9	BC069338	BC069338 Homo sapi
15	745.4	99.8	1632	6	CQ875889	CQ875889 Sequence
16	745.4	99.8	1632	9	H0SA1578	Y16578 Homo sapien
17	745.4	99.8	1638	6	CQ875890	CQ875890 Sequence
18	745.4	99.8	1638	6	CQ875892	CQ875892 Sequence
19	745.4	99.8	1638	9	H0SA1579	Y16579 Homo sapien

[illegible]

[illegible]

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426 CGTATCAAAAGTGGCTGACCTTCTCTGGGCAAAACAAAGTTGGGAAACAAAGTTCTTCCTG 485
421 ACCAATGGTGAATAATAGCTTTGAAAAGTGAAGGCTTGTGTGTGTCAGTTCCAGGCC 480
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601 AATAGACTGACCTTACACAACTGGAACGAGGGTGAACCCAAACAAATGCTGGTCTGATGAA 660
666 AATAGACTGACCTTACACAACTGGAACGAGGGTGAACCCAAACAAATGCTGGTCTGATGAA 725
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726 GATTGTGATTGCTACTGAAAATGGCCAGTGGAATGAGTCCCTGCTCCACCTCCCAT 785
721 CTGGCCGCTGTGAGTTCCTATCTGA 747
786 CTGGCCGCTGTGAGTTCCTATCTGA 812

RESULT 13
HSMBPC
LOCUS HSMBPC 3605 bp mRNA linear PRI 31-MAR-1995
DEFINITION Human mRNA for mannose-binding protein C.
X15422
ACCESSION X15422.1 GI:34486
VERSION mannose-binding protein.
KEYWORDS mannose-binding protein.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
Sastry, K., Herman, G.A., Day, L., Deignan, E., Bruns, G., Morton, C.C.
and Ezekowitz, R.A.
The human mannose-binding protein gene. Exon structure reveals its
evolutionary relationship to a human pulmonary surfactant gene and
localization to chromosome 10
J. Exp. Med. 170 (4), 1175-1189 (1989)
90010778
PUBMED 2477486
REFERENCE 2 (bases 1 to 3605)
Ezekowitz, R.A.B.
Direct Submission
Submitted (17-AUG-1989) Ezekowitz R.A.B., The Children's Hospital,
Enders Building 7th Floor, 300 Longwood Avenue, Boston MA 02115, U
S A
X15422 revises MBP cDNA seq published by:
Ezekowitz et. al. J. Exp. Med. 167:1034-1046 (1988). Data kindly
reviewed (22-FEB-1990) by Ezekowitz R.A.B.
FEATURES
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/note="signal peptide (AA -20 to -1)"
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/product="mat. mannose-binding protein C (AA 1-228)"
sig_peptide
mat_peptide
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Matches 747; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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DB 66 ATGTCCCTGTTTCCATCACTCCCTCTCTCTGAGTATGTTGGCAGCGCTTACTCA 125
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DB 126 GAAACTGTGACCTGTGAGGATGCCCAAGACCTGCCCTGCAGTGATTCCTGTAGCTCT 185
QY 121 CCAGGCATCAACGGCTTCCAGGCAAGATGGGCGTGTGTCACCAAGGGAGAAAGGG 180
DB 186 CCAGGCATCAACGGCTTCCAGGCAAGATGGGCGTGTGTCACCAAGGGAGAAAGGG 245
QY 181 GAACAGGCCCAAGGCTCAGAGGCTTACAGGGCCCCCTCGAAAGTTCGGGGCTCCAGGA 240
DB 246 GAACAGGCCCAAGGCTCAGAGGCTTACAGGGCCCCCTCGAAAGTTCGGGGCTCCAGGA 305
QY 241 AATCCAGGGCTTCTGGGTCACAGGAGCCAAAGGGCCAAAGAGAGCCCTGGAAAAAGT 300
DB 306 AATCCAGGGCTTCTGGGTCACAGGAGCCAAAGGGCCAAAGAGAGCCCTGGAAAAAGT 365
QY 301 CCGGATGGTATAGTACCTGCTGCTCAGAAAGAAAGCTCTCGAAACAGAAATGGCA 360
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DB 666 AATAGACTGACCTTACACAACTGGAACGAGGGTGAACCCAAACAAATGCTGGTCTGATGAA 725
QY 661 GATTGTGATTGCTACTGAAAATGGCCAGTGGAATGAGTCCCTGCTCCACCTCCCAT 720
DB 726 GATTGTGATTGCTACTGAAAATGGCCAGTGGAATGAGTCCCTGCTCCACCTCCCAT 785
QY 721 CTGGCCGCTGTGAGTTCCTATCTGA 747
DB 786 CTGGCCGCTGTGAGTTCCTATCTGA 812

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: June 19, 2005, 14:00:45 ; Search time 541 Seconds
(without alignments)
8173.839 Million cell updates/sec

Title: US-10-054-536-2

Perfect score: 747

Sequence: 1 agtccctgtttccatcact.....tctgtgagttccctatctga 747

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 4390206 seqs, 2959870667 residues

Total number of hits satisfying chosen parameters: 8780412

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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- 2: Geneseq1980s:*
- 3: Geneseq1980s:*
- 4: Geneseq2001as:*
- 5: Geneseq2001bs:*
- 6: Geneseq2002as:*
- 7: Geneseq2002bs:*
- 8: Geneseq2003as:*
- 9: Geneseq2003bs:*
- 10: Geneseq2003cs:*
- 11: Geneseq2003ds:*
- 12: Geneseq2004as:*
- 13: Geneseq2004bs:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Match	Length	ID	Description
1	747	100.0	747	2	Aaz07142 Human man
2	747	100.0	747	12	Adi20100 DNA seque
3	747	100.0	900	6	Abk14771 DNA encod
4	747	100.0	1632	13	Adr29055 Human MBL
5	747	100.0	1638	12	Adp03860 Human mbl
6	747	100.0	1638	13	Adr29056 Human MBL
7	747	100.0	1638	13	Adr29059 Human MBL
8	747	100.0	1638	13	Adr29061 Human MBL
9	747	100.0	3605	6	Aaz07143 Human man
10	747	100.0	3605	6	Abn97210 Gene #370
11	747	100.0	3605	12	Adi20099 DNA seque
12	747	100.0	3605	12	Adi45526 cDNA enco
13	745.4	99.8	1632	13	Adr29057 Human MBL
14	745.4	99.8	1638	13	Adr29058 Human MBL
15	745.4	99.8	1638	13	Adr29060 Human MBL
16	742.2	99.4	3592	2	Aaq53529 Human Man
17	734	98.3	1644	12	Adp03848 Human mbl
18	734	98.3	1644	12	Adp03836 Human mbl
19	734	98.3	1644	12	Adp03840 Human mbl
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22	734	98.3	1644	12	ADP03852	Adp03852 Human mbl
23	684	91.6	684	2	AAx29295	Aax29295 Mannan-bi
24	673.4	90.1	1143	12	ADO21125	Ado21125 Human car
25	635.8	85.1	963	1	AAx91079	Aan91079 cDNA of h
26	644.6	59.5	1409	6	AAx45344	Aad45344 Human ant
27	395	52.9	1010	3	AAx70738	Aaa70738 Pig serum
28	374	50.1	3336	2	AAQ64652	Aaq64652 Human Man
29	364.6	48.8	1037	6	ABK63803	Abk63803 Rat seque
30	364.6	48.8	1037	10	ADB58487	Adb58487 Toxicity-
31	287.6	38.5	1068	12	ADP71919	Adp71919 Renal tox
32	286	38.3	717	10	ADB58066	Adb58066 Toxicity-
33	286	38.3	717	10	ADB52544	Adb52544 Primary r
34	284.4	38.1	943	4	AAH44805	Aah44805 Murine cd
35	280.6	37.6	1437	4	AAK51894	Aak51894 Human pol
36	274.4	36.7	1662	4	AAK52878	Aak52878 Human pol
37	240.6	32.2	1248	12	ADP28880	Adp28880 Human sec
38	224	30.0	1143	12	ADO21125	Ado21125 Human car
39	222	29.7	419	8	ABX46620	Abx46620 Bovine ES
40	204.4	27.4	1211	6	ABK14789	Abk14789 DNA encod
41	188	25.2	1802	2	AAQ53530	Aaq53530 Human Man
42	186.2	24.9	405	6	ABS66633	Abs66633 Rat PrMBP
43	186	24.9	1802	10	ABX08715	Abx08715 Pathogeni
44	186	24.9	1802	10	ABX08719	Abx08719 Pathogeni
45	186	24.9	1802	10	ABX08711	Abx08711 Pathogeni

ALIGNMENTS

RESULT 1
AAZ07142
ID AAZ07142 standard; cDNA; 747 BP.
XX
AC AAZ07142;
DT 11-OCT-1999 (first entry)
XX
DE Human mannan-binding protein encoding cDNA.
KW Human; mannan-binding protein; hMBP; recombinant; inhibition; infection;
KW rhMBP; haemagglutination; influenza; HIV; primer; ss.
XX Homo sapiens.
PN WO9937676-A1.
XX
PD 29-JUL-1999.
XX
PF 23-JUL-1998; 98WO-JP003311.
XX
PR 23-JAN-1998; 98JP-00011864.
XX
PA (FUSO) FUSO PHARM IND LTD.
PI Wakamiya N;
DR WPI; 1999-469114/39.
DR P-PSDB; AAY29485.
XX
PT Recombinant human mannan-binding protein expressed using pNOW1 vector.
XX
PS Example 2; Page 74; 91pp; Japanese.
XX
CC The present invention describes recombinant human mannan-binding protein
CC (rhMBP) having a molecular weight range of 1000-1300 or 200-400 kDa (by
CC gel filtration with detection at 280 nm). rhMBP may be used as a
CC component of drug compositions for the inhibition of haemagglutination
CC and prevention of infection by viruses such as influenza and HIV. The
CC present sequence encodes hMBP (human mannan-binding protein)
XX
SQ Sequence 747 BP; 203 A; 187 C; 202 G; 155 T; 0 U; 0 Other;

Db 661 GATTGTGATGCTGAGGATGCCAAAGACCTGCCCTGACGTGATTCCTGAGCTCT 120
 Qy 721 CTGGCCGCTGTGAGTTCCTATCTGA 747
 Db 721 CTGGCCGCTGTGAGTTCCTATCTGA 747

RESULT 3

ABK14771
 ID ABK14771 standard; DNA; 900 BP.
 XX
 AC ABK14771;
 DT 08-MAY-2002 (first entry)
 XX
 DE DNA encoding human mannose-binding protein (MBP).
 KW Human; mannose-binding protein; MBP; methylotrophic yeast strain;
 KW protein disulphide isomerase; PDI; heat shock protein 47; hsp47;
 KW propyl-4-hydroxylase; P4H; pathogenic organism disposal; biocide; gene;
 KW ds.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT CDS 66..812
 FT /*tag= a
 FT /product= "Mannose-binding protein (MBP)"
 XX
 PN US6337193-B1.
 XX
 PD 08-JAN-2002.
 XX
 XX 24-NOV-1998; 98US-00198603.
 XX
 PR 24-NOV-1998; 98US-00198603.
 XX
 XX (APTA-) APTAGEN INC.
 XX
 XX Tully RE, Caltagirone GT, Moyer SS, Ronning MT;
 XX WPI; 2002-163238/21.
 DR P-PSDB; AAU75574.
 XX
 XX Methylotrophic yeast strain, useful for producing mannose-binding
 PT protein, comprises DNA molecules encoding the protein, protein disulfide
 PT isomerase, heat shock protein 47 and propyl-4-hydroxylase.
 XX
 PS Claim 5; Fig 1; 30pp; English.

XX The invention relates to a methylotrophic yeast strain (I) comprising a
 CC DNA molecule encoding mannose-binding protein (MBP), protein disulphide
 CC isomerase (PDI), heat shock protein 47 (hsp47), and propyl-4-hydroxylase
 CC (P4H), where upon culturing (I) produces the MBP, PDI, hsp47 and P4H. (I)
 CC is useful for producing MBP comprising culturing (I) under conditions
 CC suitable for the secretion of MBP by the yeast where MBP is utilised in
 CC disposal of pathogenic organisms by opsonising pathogen or activating
 CC complement cascade. The methods utilising (I) result in high yields of
 CC MBP without the use of foetal calf serum, in a cost-effective manner. The
 CC present sequence relates to the coding sequence of human mannose-binding
 CC protein
 XX
 SQ Sequence 900 BP; 246 A; 225 C; 228 G; 201 T; 0 U; 0 Other;

Query Match 100.0%; Score 747; DB 6; Length 900;
 Best Local Similarity 100.0%; Pred. No. 1.2e-207;
 Matches 747; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGTCCTGTTCCATCACTCCCTCTCTCTCTGAGTATGGTGGCAGCGCTCTACTCA 60
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Qy 61 GAAACTGTGACCTGTGAGGATGCCAAAGACCTGCCCTGACGTGATTCCTGAGCTCT 120
 Db 126 GAAACTGTGACCTGTGAGGATGCCAAAGACCTGCCCTGACGTGATTCCTGAGCTCT 185
 Qy 121 CCAGGCATCAACCGCTTCCAGGCAAGATGGGCGTGATGGCAACCAAGGAGAGAAAGGGG 180
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 Qy 301 CCGGATGGTGATAGTAGCTGGCTGCTCAGAAAGAAAGCTCTGCAAAACAGAAATGGCA 360
 Db 366 CCGGATGGTGATAGTAGCTGGCTGCTCAGAAAGAAAGCTCTGCAAAACAGAAATGGCA 425
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 Qy 421 ACCAATGGTCAANAATAGCTTTGAAAAGTGAAGGCTTGTGTCAAGTTCCAGGCC 480
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 Db 666 AATAGACTGACCTACACAACTGGAACGAGGGTGAACCAACAACTGCTGTTCTGATGA 725
 Qy 661 GATTGTGATTGCTTACTGAAAATGGCCAGTGAATGACGTCCCTGCTCCACTCCCAT 720
 Db 726 GATTGTGATTGCTTACTGAAAATGGCCAGTGAATGACGTCCCTGCTCCACTCCCAT 785
 Qy 721 CTGGCCGCTGTGAGTTCCTATCTGA 747
 Db 786 CTGGCCGCTGTGAGTTCCTATCTGA 812

RESULT 4

ADR29055
 ID ADR29055 standard; DNA; 1632 BP.
 XX
 AC ADR29055;
 XX
 DT 21-OCT-2004 (first entry)
 XX
 DE Human MBL gene with non-structural/variant structural allele (codon 57).
 XX
 KW Sepsis; septic shock; severe; MBL; mannose binding lectin; SIRS;
 KW systemic inflammatory response syndrome; innate immune defence;
 KW single nucleotide polymorphism; SNP; structural variant; regulatory;
 KW prophylaxis; sepsis syndrome; infection susceptibility;
 KW multiple organ failure; MOF; multiple organ dysfunction; acute; gene; ds;
 KW human.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT variation 396
 FT /*tag= a
 FT /standard name= "Single nucleotide polymorphism"
 FT /note= "Non-structural allele"

QY	421	ACCAATGCTGATAATAATGACCTTTGAAAAAGTGAAGCCCTTGTTGCTCAAGTTCAGGCC	480
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QY	481	TCTGTGGCCACCCCGAGGATGCTGCAGAGNATGGAGCCATTGAGAATCTCATCAAGGAG	540
Db	546	TCTGTGGCCACCCCGAGGATGCTGCAGAGNATGGAGCCATTGAGAATCTCATCAAGGAG	605
QY	541	GAAGCCTTTCTTGGGCATCACTGATGAGAAGACAGAAGGCGAGTTTGTGGATCTGACAGA	600
Db	606	GAAGCCTTTCTTGGGCATCACTGATGAGAAGACAGAAGGCGAGTTTGTGGATCTGACAGA	665
QY	601	AATAGACTGACCTACACAAACTGAAACGAGGGTGAACCCACCAATGCTGGTCTGATGAA	660
Db	666	AATAGACTGACCTACACAAACTGGAACGAGGGTGAACCCACCAATGCTGGTCTGATGAA	725
QY	661	GATTGTGTATTCTCTACTGAAAAATGGCCAGTGGGAATGACGTCCCTGCTCCACTCCCAT	720
Db	726	GATTGTGTATTCTCTACTGAAAAATGGCCAGTGGGAATGACGTCCCTGCTCCACTCCCAT	785
QY	721	CTGGCCGCTCTGTGAGTTCCCTATCTGA	747
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RESULT 13

ADR29057	
ID	ADR29057 standard; DNA; 1632 BP.
XX	
XX	
AC	ADR29057;
XX	
DT	21-OCT-2004 (first entry)
XX	
DE	Human MBL gene with variant structural allele (in codon 57).
XX	
KW	Sepsis; septic shock; severe; MBL; mannose binding lectin; SIRS;
KW	systemic inflammatory response syndrome; innate immune defence;
KW	single nucleotide polymorphism; SNP; structural variant; regulatory;
KW	prophylaxis; sepsis syndrome; infection susceptibility;
KW	multiple organ failure; MOF; multiple organ dysfunction; acute; gene; ds;
XX	human.
XX	
OS	Homo sapiens.
XX	
FH	Key Location/Qualifiers
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FT	/tag= a
FT	/standard name= "Single nucleotide polymorphism"
FT	/note= "Variant structural allele"
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PN	WO2004065626-A2.
XX	
PD	05-AUG-2004.
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PF	16-JAN-2004; 2004WO-DK0000027.
XX	
PR	17-JAN-2003; 2003DK-00000042.
PR	06-MAR-2003; 2003US-0453272P.
XX	
PA	(RIGS-) RIGSHOSPITALET.
PA	(KOBE-) KOBEHAVNS AMT.
XX	
PI	Garred P, Madsen HO, Strom J;
XX	
DR	WPI; 2004-571694/55.
XX	
PT	Predicting whether an individual having Systemic Inflammatory Response
PT	Syndrome (SIRS) will develop sepsis, useful for treating sepsis,
PT	comprises determining the mannose-binding lectin (MBL) genotype or
PT	concentration of MBL.
XX	
PS	Claim 3; SEQ ID NO 22; 65pp; English.


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Db 1372 TCTGTGGCCACCCGAGGATGCTGCAGAGAAATGGAGCCATTGAAATCTCATCAGGAG 1431
Qy 541 GAAGCCTTCTTGGGCATCAGTATGAGAGACAGAGGGCAGTTTGTGGATCTGACAGGA 600
Db 1432 GAAGCCTTCTTGGGCATCAGTATGAGAGACAGAGGGCAGTTTGTGGATCTGACAGGA 1491
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Db 1552 GATTGTGTATTGCTACTGAAAAATGGCCAGTGGAAATGACGTCCTCCCTGCTCCACCTCCAT 1611
Qy 721 CTGGCCCTCTGTGAGTTCCTTATCTGA 747
Db 1612 CTGGCCCTCTGTGAGTTCCTTATCTGA 1638
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Search completed: June 20, 2005, 16:01:54
Job time : 545 secs

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QY 361 CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAAAAGTTGGGAAACAAGTTCTTCTCTG 420
Db 426 CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAAAAGTTGGGAAACAAGTTCTTCTCTG 485
QY 421 ACCAATGGTGAATANTAGACCTTGAAGAAAGTGAAGGCTTCTGTGTCAAGTTCCAGGCC 480
Db 486 ACCAATGGTGAATANTAGACCTTGAAGAAAGTGAAGGCTTCTGTGTCAAGTTCCAGGCC 545
QY 481 TCTGTGGCCACCCCAAGGAATGCTGAGAGAAATGGAGCCATTGAGAAATCTCAATCAAGGAG 540
Db 546 TCTGTGGCCACCCCAAGGAATGCTGAGAGAAATGGAGCCATTGAGAAATCTCAATCAAGGAG 605
QY 541 GAAGCCCTTCTGGGCATCACTGATGAGAAAGACAGAAAGGCGAGTTGTGTGATCTGACAGA 600
Db 606 GAAGCCCTTCTGGGCATCACTGATGAGAAAGACAGAAAGGCGAGTTGTGTGATCTGACAGA 665
QY 601 AATAGACTGACCTACACAACTGGAACGAGGGTGAACCCCAACAATGCTGTTCTGATGAA 660
Db 666 AATAGACTGACCTACACAACTGGAACGAGGGTGAACCCCAACAATGCTGTTCTGATGAA 725
QY 661 GATTGTGATTGCTACTGAAAAATGGCCAGTGAATGAGTCCCTGCTCCACCTCCCAT 720
Db 726 GATTGTGATTGCTACTGAAAAATGGCCAGTGAATGAGTCCCTGCTCCACCTCCCAT 785
QY 721 CTGGCCGCTGTGAGTTCCTATCTGA 747
Db 786 CTGGCCGCTGTGAGTTCCTATCTGA 812

RESULT 2
US-09-949-016-3499
; Sequence 3499, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3499
; LENGTH: 1340
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-3499

Query Match 100.0%; Score 747; DB 4; Length 1340;
Best Local Similarity 100.0%; Pred. No. 2.6e-227; Indels 0; Gaps 0;
Matches 747; Conservative 0; Mismatches 0;

QY 1 ATGTCCCTGTGTTCCATCACTCCCTCTCTCTCTCTGAGTATGTTGGGAGCGTCTTACTCA 60
Db 66 ATGTCCCTGTGTTCCATCACTCCCTCTCTCTCTCTGAGTATGTTGGGAGCGTCTTACTCA 125
QY 61 GAAACTGTGACTGTGAGGATGCCCAAGACCTGCCCTGCAGTGATTGCTGTAGCTCT 120
Db 126 GAAACTGTGACTGTGAGGATGCCCAAGACCTGCCCTGCAGTGATTGCTGTAGCTCT 185
QY 121 CCAGGCATCAACGGCTTCCAGGCAAAAGATGGGCGTGTATGCCACCAAGGGGAAAAAGGG 180
Db 186 CCAGGCATCAACGGCTTCCAGGCAAAAGATGGGCGTGTATGCCACCAAGGGGAAAAAGGG 245
QY 181 GAACCAAGCCAGGCTCAGAGGCTTACAGGGCCCCCTTGAAAGTTGGGCGCTCCAGGA 240
Db 246 GAACCAAGCCAGGCTCAGAGGCTTACAGGGCCCCCTTGAAAGTTGGGCGCTCCAGGA 305
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```
QY 241 AATCAGGGCTTCTGGGTCAACAGGACCAGAGGCCAAAGGCCAAAGAGAGACCCCTGGAAAAAGT 300
Db 306 AATCAGGGCTTCTGGGTCAACAGGACCAGAGGCCAAAGGCCAAAGAGAGACCCCTGGAAAAAGT 365
QY 301 CCGGATGGTGTATAGTAGCTGGCTGCCTCAGAAAGAAAAGCTCTGCAAAACAGAAATGGCA 360
Db 366 CCGGATGGTGTATAGTAGCTGGCTGCCTCAGAAAGAAAAGCTCTGCAAAACAGAAATGGCA 425
QY 361 CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAAAACAAGTTGGGAAACAAGTTCTTCTCTG 420
Db 426 CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAAAACAAGTTGGGAAACAAGTTCTTCTCTG 485
QY 421 ACCAATGGTGAATANTAGACCTTGAAGAAAGTGAAGGCTTCTGTGTCAAGTTCCAGGCC 480
Db 486 ACCAATGGTGAATANTAGACCTTGAAGAAAGTGAAGGCTTCTGTGTCAAGTTCCAGGCC 545
QY 481 TCTGTGGCCACCCCAAGGAATGCTGAGAGAAATGGAGCCATTGAGAAATCTCAATCAAGGAG 540
Db 546 TCTGTGGCCACCCCAAGGAATGCTGAGAGAAATGGAGCCATTGAGAAATCTCAATCAAGGAG 605
QY 541 GAAGCCCTTCTGGGCATCACTGATGAGAAAGACAGAAAGGCGAGTTGTGTGATCTGACAGA 600
Db 606 GAAGCCCTTCTGGGCATCACTGATGAGAAAGACAGAAAGGCGAGTTGTGTGATCTGACAGA 665
QY 601 AATAGACTGACCTACACAACTGGAACGAGGGTGAACCCCAACAATGCTGTTCTGATGAA 660
Db 666 AATAGACTGACCTACACAACTGGAACGAGGGTGAACCCCAACAATGCTGTTCTGATGAA 725
QY 661 GATTGTGATTGCTACTGAAAAATGGCCAGTGAATGAGTCCCTGCTCCACCTCCCAT 720
Db 726 GATTGTGATTGCTACTGAAAAATGGCCAGTGAATGAGTCCCTGCTCCACCTCCCAT 785
QY 721 CTGGCCGCTGTGAGTTCCTATCTGA 747
Db 786 CTGGCCGCTGTGAGTTCCTATCTGA 812

RESULT 3
US-09-949-016-36
; Sequence 36, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 36
; LENGTH: 3605
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-36

Query Match 100.0%; Score 747; DB 4; Length 3605;
Best Local Similarity 100.0%; Pred. No. 4.6e-227; Indels 0; Gaps 0;
Matches 747; Conservative 0; Mismatches 0;

QY 1 ATGTCCCTGTGTTCCATCACTCCCTCTCTCTCTGAGTATGTTGGGAGCGTCTTACTCA 60
Db 66 ATGTCCCTGTGTTCCATCACTCCCTCTCTCTCTGAGTATGTTGGGAGCGTCTTACTCA 125
QY 61 GAAACTGTGACTGTGAGGATGCCCAAGACCTGCCCTGCAGTGATTGCTGTAGCTCT 120
```

Dd		126	GAAACTGTGACCTGTGAGATGGCCCAAAAAGACCCTGCCCTGCAGTGATTGGCTTGTAGCTCT	185
Qy		121	CCAGGCATCAACGGCTTCCCAGCGCAAAGATGGCGTGATGGCACAAGGGAGAAAAAGGGG	180
Dd		186	CCAGCATCAACGGCTTCCCAGGCAAAAGATGGCGTGATGGCACCAAGGGAGAAAAAGGGG	245
Qy		181	GAAACAGGCCAAGGGCTCAGAGGCTTACAGGGCCCCCTGGNAAGTTGGGGCTCCAGA	240
Dd		246	GAAACAGGCCAAGGGCTCAGAGGCTTACAGGGCCCCCTGGNAAGTTGGGGCTCCAGA	305
Qy		241	AATCCAGGGCCTTCTGGGTCCAAGGACCAAAAGGGCCAAAAGGAGAGACCTTCGAAAAAGT	300
Dd		306	AATCCAGGGCCTTCTGGGTCCAAGGACCAAAAGGGCCAAAAGGAGAGACCTTCGAAAAAGT	365
Qy		301	CCGGATGGTGATAGTAGCTGGCTGCCTCAGNAGAAAGGCTCTCAAACAGAAATGGCA	360
Dd		366	CCGGATGGTGATAGTAGCTGGCTGCCTCAGNAGAAAGGCTCTCAAACAGAAATGGCA	425
Qy		361	CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAAAACAAGTTGGGAACAAGTTCTTCCTG	420
Dd		426	CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAAAACAAGTTGGGAACAAGTTCTTCCTG	485
Qy		421	ACCAATGGTGAAATAATGACCTTTGAAAAAGTGAAGGCTTGTGTCAAGTTCCAGGCC	480
Dd		486	ACCAATGGTGAAATAATGACCTTTGAAAAAGTGAAGGCTTGTGTCAAGTTCCAGGCC	545
Qy		481	TCTGTGGCCACCCAGGAATGCTGCACAGAAATGGAGCCATT'CAGAATCTCATCAAGNG	540
Dd		546	TCTGTGGCCACCCAGGAATGCTGCACAGAAATGGAGCCATT'CAGAATCTCATCAAGNG	605
Qy		541	GAAGCCTTCTGGGCATCACTGNTGAGAAGACAGAAAGGCGAGTTTGTGGATCTGACAGA	600
Dd		606	GAAGCCTTCTGGGCATCACTGNTGAGAAGACAGAAAGGCGAGTTTGTGGATCTGACAGA	665
Qy		601	AATAGACTGACCTACAGAACTGGNACAGGGTGAAACCCACAAATGCTGGTCTGATGAA	660
Dd		666	AATAGACTGACCTACAGAACTGGNACAGGGTGAAACCCACAAATGCTGGTCTGATGAA	725
Qy		661	GATTGTGTATTGCTACTGAAAAAATGGCCAGTGGAATGACGTCCCTGCTCCACCTCCCAT	720
Dd		726	GATTGTGTATTGCTACTGAAAAAATGGCCAGTGGAATGACGTCCCTGCTCCACCTCCCAT	785
Qy		721	CTGGCGGCTCTGTGAGTTCCCTATCTGA	747
Dd		786	CTGGCGGCTCTGTGAGTTCCCTATCTGA	812

RESULT 4

```

RESULI 4
US-09-949-016-15241
; Sequence 15241, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15241
; LENGTH: 8093
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-15241

```

RESULT 5

```

RESULT 5
US-09-949-016-11778
; Sequence 11778, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11778
; LENGTH: 10320
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-11778

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Query Match
50.1%; Score 374; DB 4; Length 8093;


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; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 124316
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-124316

Query Match          9.9%; Score 74; DB 4; Length 601;
Best Local Similarity 100.0%; Pred. No. 4e-13; Indels 0; Gaps 0;
Matches 74; Conservative 0; Mismatches 0;

QY 115 AGCTCTCCAGGCATCAACGGCTTCCAGGCAAGATGGCGCTGATGGCAACCAAGGAGAA 174
Db 601 AGCTCTCCAGGCATCAACGGCTTCCAGGCAAGATGGCGCTGATGGCAACCAAGGAGAA 542

QY 175 AAGGGGGAACGAG 188
Db 541 AAGGGGGAACGAG 528

RESULT 12
US-09-198-603C-24
; Sequence 24, Application US/09198603C
; Patent No. 6337193
; GENERAL INFORMATION:
; APPLICANT: TULLY, Raymond B.
; APPLICANT: CALTAGIRONE, G. Thomas
; APPLICANT: MOYER, Shawn S.
; APPLICANT: RONNING, Michael T.
; TITLE OF INVENTION: EXPRESSION OF MANNOSE-BINDING PROTEIN IN METHYLOTROPHIC
; TITLE OF INVENTION: YEAST
; FILE REFERENCE: A7290
; CURRENT APPLICATION NUMBER: US/09/198,603C
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 24
; LENGTH: 1558
; TYPE: DNA
; ORGANISM: RAT
US-09-198-603C-24

Query Match          9.8%; Score 73.4; DB 3; Length 1558;
Best Local Similarity 77.4%; Pred. No. 1.1e-12;
Matches 89; Conservative 0; Mismatches 26; Indels 0; Gaps 0;

QY 185 CAGGCCAAGGCTCAGAGGCTTACAGGGCCCCCTGGAAAGTTGGGGCCTCCAGGAATC 244
Db 1173 CAGGTCRAGGGCTCAGGGGCTTGAGGGGCTTCAGGGGCTCCAGGGAAGTGGGAGTG 1232

QY 245 CAGGCGCTTCTGGGTACACGAGCAAGAGGGCCAAAGAGGAGACCCCTGGAAAAAG 299
Db 1233 TAGGAGCCCTTGGAGTCAAGGACCAAGGCAAGGCAAGGAGGATCGTGGAGACAG 1287

RESULT 13
US-09-949-016-18342/c
; Sequence 18342, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-09-08
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 24
; LENGTH: 1558
; TYPE: DNA
; ORGANISM: RAT
US-09-949-016-18342/c

Query Match          9.8%; Score 72; DB 4; Length 601;
Best Local Similarity 93.8%; Pred. No. 1.7e-12;
Matches 75; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 295 AAAAGTCCGGATGGTATAGTAGCTGCTCAGAAAGAAAGCTCTGCAAAACAGAA 354
Db 129 AATTTTCTAGATGGTATAGTAGCTGCTCAGAAAGAAAGCTCTGCAAAACAGAA 70

QY 355 ATGGCACGTATCAAAAAGTG 374
Db 69 ATGGCACGTATCAAAAAGTG 50

RESULT 14
US-09-949-016-124321/c
; Sequence 124321, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 124321
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-124321/c

Query Match          9.6%; Score 72; DB 4; Length 601;
Best Local Similarity 93.8%; Pred. No. 1.7e-12;
Matches 75; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 295 AAAAGTCCGGATGGTATAGTAGCTGCTCAGAAAGAAAGCTCTGCAAAACAGAA 354
Db 129 AATTTTCTAGATGGTATAGTAGCTGCTCAGAAAGAAAGCTCTGCAAAACAGAA 70

QY 355 ATGGCACGTATCAAAAAGTG 374
Db 69 ATGGCACGTATCAAAAAGTG 50

RESULT 15
US-08-365-103B-3
; Sequence 3, Application US/08365103B
; Patent No. 5766943
; GENERAL INFORMATION:
; APPLICANT: LYNNCH, Richard G.
; APPLICANT: NUNEZ, Raphael D.
; APPLICANT: YODOI, Junji
; TITLE OF INVENTION: DNA Sequences for Soluble Proms of CD23
; TITLE OF INVENTION: and Methods of Use for Same
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
```

ADDRESSEE: Zarley, McKee, Thome, Voorhees & Sease
STREET: 801 Grand Ave. Suite 3200
CITY: Des Moines
STATE: Iowa
COUNTRY: United States
ZIP: 50309

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/365,103B
FILING DATE: 28-DEC-1994
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
NAME: Nebel, Heidi S.
REGISTRATION NUMBER: 37,719
REFERENCE/DOCKET NUMBER: Uirf N5-24
TELECOMMUNICATION INFORMATION:
TELEPHONE: (515) 288-3667
TELEFAX: (515) 288-1338

INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 885 base pairs
TYPE: nucleic acid

STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:

NAME/KEY: CDS
LOCATION: 24..884

US-08-365-103B-3

Query Match 9.0%; Score 67.6; DB 1; Length 885;
Best Local Similarity 55.6%; Pred. No. 5.5e-11;
Matches 130; Conservative 0; Mismatches 104; Indels 0; Gaps 0;

Qy	484	GTGGCCACCCCGAGGAATGCTGCAGAGAATGGAGCCATTTCAGAAATCTCATCAAGGAGAA	543
Db	567	GTACGATCCACAGCCAAAGGACAGGACTTCTGTATGCACATCAACAGAGAT	626
Qy	544	GCCTTCCTGGGCATCACTGATGAGAGACAGAGCGGAGTTTGTGGATCTGACAGGAAAT	603
Db	627	TCTGGATTGGCTCCAGGATCTCAATATGAGGGAGAGTTTGTATGTCGACGGGAGC	686
Qy	604	AGACTGACCTACACAAACTGGAACGAGGGTGACCCCAACATGCTGGTTCTGTATGAAGAT	663
Db	687	CCTGTGGGTTATAGCAACTGGAATCCAGGGAGGCCAATAACGGGGGCCAGGGTGAGGAC	746
Qy	664	TGTGTATTGTACTGAAATGGCCAGTGAATGACGCTCCCTGCTCCACTCC	717
Db	747	TGTGTATGATGCGGGGATCCGGCCAGTGGAAACAGCCCTTCTGCCGAGCTAC	800

Search completed: June 20, 2005, 17:05:13
Job time : 185 secs

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Qy	601	AATAGACTGACCTACACAAA	CTGGAAACGAGGCTGAACCCCA	CAATGCTGGTTCCTGATGAA	660
Db	666	AATAGACTGACCTACACAAA	CTGGAAACGAGGCTGAACCCCA	CAATGCTGGTTCCTGATGAA	725
Qy	661	GATTGTGTATTCTACTGAAA	AATGCCAGTGGAAATGACGT	CCCCCTGCTCCACCTCCCAT	720
Db	726	GATTGTGTATTCTACTGAAA	AATGCCAGTGGAAATGACGT	CCCCCTGCTCCACCTCCCAT	785

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RESULT 7
US-10-844-837-99
; Sequence 99, Application US/10844837
; Publication No. US20050014932A1
; GENERAL INFORMATION:
; APPLICANT: Imboden, Michael
; APPLICANT: Homan, Jane
; APPLICANT: Bremel, Robert D.
; TITLE OF INVENTION: Targeted Biocides
; FILE REFERENCE: IOGER-09014
; CURRENT APPLICATION NUMBER: US/10/844,837
; CURRENT FILING DATE: 2004-05-13
; NUMBER OF SEQ ID NOS: 101
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 99
; LENGTH: 2159
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-844-837-99

```

Query Match	99.2%	Score 741.2;	DB 21;	Length 2159;
Best Local Similarity	99.6%	Pred. No. 3.8e-232;		
Matches 743; Conservative	0;	Mismatches 3;	Indels 0;	Gaps 0;

61 GAAACTGTGACCTGTGAGGATGCCAAAGACCTGCCCTGCAGTGATTCCTGTAGCTCT 120
|||||
739 GAAACTGTGGCCCTGTGAGGATGCCAAAGACCTGCCCTGCAGTGATTCCTGTAGCTCT 798
|||||

121 CCAGGCATCAACGGCTTCCAGGCCAAAGATGGCGGTGATGGACCAGGGAGAAAAGGGG 180

799 CCAGGCATCAACGGCTTCCAGGCCAAAGATGGCGGTGATGGACCAGGGAGAAAAGGGG 858

181 GAACAGGCCAAGGCTCAGAGGCTTACAGGGCCCCCTTGAAAGTTGGGGCTCCAGGA 240

859 GAACAGGCCAAGGCTCAGAGGCTTACAGGGCCCCCTTGAAAGTTGGGGCTCCAGGA 918

241 AATCCAGGGCTTCTGGTTCACCAAGGCCAAAGAGACCTCGAAAAAGT 300
|||||
919 AATCCAGGGCTTCTGGTTCACCAAGGCCAAAGAGACCTCGAAAAAGT 978
|||||

301 CCGGATGGTGATAGTAGCTGGCTGCCTCAGAAAGAAAAGCTCTGCAAAACAGAAATGGCA 360
|||||
979 CCGGATGGTGATAGTAGCTGGCTGCCTCAGAAAGAAAAGCTCTGCAAAACAGAAATGGCA 1038

361 CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAAAACAAGTTGGGAACAAGTTCTTCTCTG 420
|||||
1039 CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAAAACAAGTTGGGAACAAGTTCTTCTCTG 1098

421 ACCAATGGTGAATAATGACCTTTTGAAAAAGTGAAGCCCTTGTGTGTCAGTTCACAGCC 480

1099 ACCAATGGTGAATAATGACCTTTTGAAAAAGTGAAGCCCTTGTGTGTCAGTTCACAGCC 1158

481 TCTGTGGCCACCCCCAGGAATGCTGCAGAGAAATGGAGCCATTTCAGAATCTCATCAAGGAG 540
|||||
1159 TCTGTGGCCACCCCCAGGAATGCTGCAGAGAAATGGAGCCATTTCAGAATCTCATCAAGGAG 1218

Qy	541	GAAGCCTTCTCTGGGCATCACTGATGAGAACAGAGGGCAGTTTGTGGATCTGCAGGA	600
Db	1219	GAAGCCTTCTCTGGGTATCACTGATGAGAACAGAGGGCAGTTTGTGGATCTGCAGGA	1278
Qy	601	AATAGACTGACCTTACACAACTGGACGAGGGTGAACCCAACTGCTGGTCTTGATGAA	660
Db	1279	AATAGACTGACCTTACACAACTGGACGAGGGTGAACCCAACTGCTGGTCTTGATGAA	1338
Qy	661	GATTGTGTAATTGCTACTGAAAAATGGCCAGTGGAAATGACGTCGCCCTGCTCCACCTCCCAT	720
Db	1339	GATTGTGTAATTGCTACTGAAAAATGGCCAGTGGAAATGACGTCGCCCTGCTCCACCTCCCAT	1398
Qy	721	CTGGCCGCTCTGTGAGTTCCCTATCTG	746
Db	1399	CTGGCCGCTCTGTGAGTTCCCTATCTG	1424

```

RESULT 8
US-09-971-475-2
; Sequence 2, Application US/09971475
; Publication No. US20020086817A1
; GENERAL INFORMATION:
; APPLICANT: Kawasaki, Toshisuke
; TITLE OF INVENTION: Anticancer agent
; FILE REFERENCE: ADT 308
; CURRENT APPLICATION NUMBER: US/09/971,475
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: US 09/468,705
; PRIOR FILING DATE: 1999-12-21
; PRIOR APPLICATION NUMBER: PCT/JP98/03697
; PRIOR FILING DATE: 1998-08-19
; PRIOR APPLICATION NUMBER: JP 239113/97
; PRIOR FILING DATE: 1997-08-21
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 684
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-971-475-2

```

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Query Match          91.6%; Score 684; DB 9; Length 684;
Best Local Similarity 100.0%; Pred. No. 1.4e-213;
Matches 684; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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121 CCAGGCATCAACGGCTTCCAGSCAAAGATGGCGTGATGGCA CCAAGGAGAAAGGGG 180

61 CCAGGCATCAACGGCTTCCAGSCAAAGATGGCGTGATGGCA CCAAGGAGAAAGGGG 120

181 GAACAGGCCCAAGGGCTTACAGGGCCCCCTTGGAAAGTTGGGGCTCCAGGA 240
121 GAACAGGCCCAAGGGCTTACAGGGCCCCCTTGGAAAGTTGGGGCTCCAGGA 180

241 AATCCAGGGCCCTTCTGGTCAACAGGACCAAGGCCCAAAAGAGACCTTGGAAAAAGT 300
|||||
181 AATCCAGGGCCCTTCTGGTCAACAGGACCAAGGCCCAAAAGAGAGACCTTGGAAAAAGT 240

301 CCGGATGGTGATAGTAGCTGGCTGCCTCAGAAAGAAAGCTCTGCAACACAGAAATGGCA 360
|||||
241 CCGGATGGTGATAGTAGCTGGCTGCCTCAGAAAGAAAGCTCTGCAACACAGAAATGGCA 300

361 CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAACAAGTTGGAAACAAGTTCCTCTG 420
|||||
301 CGTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAACAAGTTGGAAACAAGTTCCTCTG 360
|||||

421 ACCAATGGTGAATAATGACCTTTGAAAAAGTGAAGGCTTGTGTGTCAAGTTCACGGCC 480
|||||
361 ACCAATGGTGAATAATGACCTTTGAAAAAGTGAAGGCTTGTGTGTCAAGTTCACGGCC 420

Qy 481 TCTGTGGCCACCCAGGAAATGCTGCAGAGAAATGAGGCAATTCAGAAATCTCATCAAGGAG 540
Db 421 TCTGTGGCCACCCAGGAAATGCTGCAGAGAAATGAGGCAATTCAGAAATCTCATCAAGGAG 480
Qy 541 GAAGCCCTTCTGGGCACTCATGATGAGAGACAGAGGCGAGTTTGTGGATCTGACAGGA 600
Db 481 GAAGCCCTTCTGGGCACTCATGATGAGAGACAGAGGCGAGTTTGTGGATCTGACAGGA 540
Qy 601 AATAGACTGACCTACACAACTGGAACGAGGGTGAACCCCAACAAATGCTGTTCTGATGAA 660
Db 541 AATAGACTGACCTACACAACTGGAACGAGGGTGAACCCCAACAAATGCTGTTCTGATGAA 600
Qy 661 GATTGTGTATGCTACTGAAATGCCCAGTGAATGAGTCCCTGCTCCACCTCCCAT 720
Db 601 GATTGTGTATGCTACTGAAATGCCCAGTGAATGAGTCCCTGCTCCACCTCCCAT 660
Qy 721 CTGGCCGCTGTGAGTTCCCTATC 744
Db 661 CTGGCCGCTGTGAGTTCCCTATC 684
RESULT 9
US-10-076-816-54
; Sequence 54, Application US/10076816
; Publication No. US20030056244A1
; GENERAL INFORMATION:
; APPLICANT: Huang, Ning
; APPLICANT: Rodriguez, Raymond
; APPLICANT: Hagie, Frank E.
; TITLE OF INVENTION: Feed Additive Compositions and Methods
; FILE REFERENCE: 50665-8021.US00
; CURRENT APPLICATION NUMBER: US/10/076,816
; PRIOR FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/269,188
; PRIOR FILING DATE: 2001-02-14
; PRIOR APPLICATION NUMBER: US 09/847,232
; PRIOR FILING DATE: 2001-05-02
; PRIOR APPLICATION NUMBER: US 60/266,929
; PRIOR FILING DATE: 2001-02-06
; PRIOR APPLICATION NUMBER: US 60/201,182
; PRIOR FILING DATE: 2000-05-02
; NUMBER OF SEQ ID NOS: 60
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 54
; LENGTH: 1409
; TYPE: DNA
; ORGANISM: Bos taurus
US-10-076-816-54
Query Match 59.5%; Score 444.6; DB 14; Length 1409;
Best Local Similarity 76.4%; Pred. No. 8.1e-135; Indels 9; Gaps 2;
Matches 575; Conservative 0; Mismatches 169
Qy 1 ATGTCCCTGTTTCCATCACTCCCTCTCCTTCTCTGAGTATGTTGGCAGCGTCTT----- 55
Db 16 ATGTCCCTGTTTACATCACTCCCTTCTCTCTCTGAGTATGTTGGCAGCGTCTTGTGCA 75
Qy 56 -ACTCAGAACTGTGACCTGTGAGGATGCCCAAGAGCCTCCCTGCGATGATGATGCTGT 114
Db 76 GACACAGAAACAGAGAACTGTGAGAACTCCCGAAGACCTGCC---CGTGAITGGCTGT 132
Qy 115 AGCTCTCCAGGATCAACCGCTTCCAGGCAAGATGGCGTGTGATGGCCACCAAGGAGAA 174
Db 133 GGTCTCCGGGATCATATGGGATATCCAGGCAAGATGGCGTGTGATGGCCCAAGGAGAA 192
Qy 175 AAGGGGGAACCAAGGCAAGGCTCAGAGGCTTAAGGGCCCTCCCTGGAAGTTGGGCGCT 234
Db 193 AAGGGGGAACCAAGGCTCAGAGGCTTAAGGGCCCTCCCTGGAAGATGGGCGCT 252
Qy 235 CCAGGAATCCAGGCGCTTCTGGTCCAGGACCAAGGGCCCAAGAGGAGACCTTGA 294
Db 253 CAAGGAACGCCAGGGATTCCTGGGATACAGGACCAATAGGCCCAAGAGGAGACCTTGA 312

Qy 295 AAAAGTCGGATGTGTAGTCTAGCCTGGCTGCCTCAGAAAGAAAAGCTCTGCAAAAGAA 354
Db 313 GAAATATGGTGTACTATATTTGGCTGGCTACTTCAGAAAGAGCAACTCTTACAATCTGAA 372
Qy 355 ATGCGACGTATCAAAAAGTGGTGACCTTCTCTCTGGGCAAAACAAGTTGGGAACAAGTTC 414
Db 373 TTGAACCAAGATCAAAAAGTGGCTAACTTCTCTCTGGGCAAAAGAGTTGGGAAGAAGCA 432
Qy 415 TTCTGTACCAGTGTGAATTAATGACCTTTGAAAAGTGAAGGCTTTGTGTCTCAAGTTC 474
Db 433 TTTTATACCAATGTGAAAAAGATGCCCTTTAATGAAGTGAAGACTCTGTGTGACAGTTC 492
Qy 475 CAGCGCTCTGTGGCCACCCAGCAAGATGCTGCAGAGAAATGGAGCCATTCAGAAATCTCATC 534
Db 493 CAGGGCCGTGTGGCCACCCCTATGATGCTGAAGAAAACAGGGCCCTCAAGGATTTAGTC 552
Qy 535 AAGGAGGAAGCCTTCTCTGGGATCATCATGATGAGAAAGACAGAGGCGAGTTTGTGGATCTG 594
Db 553 ACTGAAGAGGCGCTTCTCTGGGATCATCATGATGAGAGACTGAAGGCAAAATTTGTGGATCTG 612
Qy 595 ACAGGAATAGACTGACCTACACAACTGGAACGAGGGTGAACCCCAACAATGCTGGTTCCT 654
Db 613 ACAGGAAGGGGGTGACCTACCAAACTGGAATGATGGGAGCCCTAACACGCTTCTCCT 672
Qy 655 GATGAAGATTTGTATTTGCTACTGAAAAATGGCCAGATGGAATGAGTCCCTGCTCCACC 714
Db 673 GGGGAGCACTGTGTGACACTTCTGTGGACGGCACATGGAATGACATCGCTTGTTCGCC 732
Qy 715 TCCCATCTGGCGCTGTGAGTTCCCTATCTGA 747
Db 733 TCCTTTTGAACCGCTGTGAAATTTCTCTCTGA 765
RESULT 10
US-10-764-420-2521
; Sequence 2521, Application US/10764420
; Publication No. US20050084872A1
; GENERAL INFORMATION:
; APPLICANT: Lum, Pek Yee
; APPLICANT: Tan, Yelun
; APPLICANT: Dai, Hongyue
; TITLE OF INVENTION: Methods For Determining Whether An Agent
; FILE REFERENCE: ROSA122057
; CURRENT APPLICATION NUMBER: US/10/764,420
; CURRENT FILING DATE: 2004-01-23
; PRIOR APPLICATION NUMBER: US 60/442,797
; PRIOR FILING DATE: 2003-01-24
; PRIOR APPLICATION NUMBER: US 60/474,413
; PRIOR FILING DATE: 2003-05-30
; NUMBER OF SEQ ID NOS: 3683
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2521
; LENGTH: 1069
; TYPE: DNA
; ORGANISM: Mus musculus
US-10-764-420-2521
Query Match 50.0%; Score 373.2; DB 21; Length 1069;
Best Local Similarity 71.7%; Pred. No. 2e-111;
Matches 518; Conservative 0; Mismatches 198; Indels 6; Gaps 2;
Qy 26 TCCTTCTCTGAGTATGGTGGCAGCGCTTCTACTCAGAACTGTGACTGTGAGGATGCC 85
Db 196 TCCTTCTCTGCTGTGTGGTGACAGTGGTTTATGCAGAGACCTTAAC---GAAGGTGTT 252
Qy 86 AAAAGACCTCCCTGCGAGTGAATTCCTGTAGCTCTCCAGGCATCAACGGCTTCCAGGCA 145
Db 253 AAAATTCCTGCCCT---GTGGTTACCTGCGAGTTCTCCAGGCTGAATGGCTTCCAGGCA 309
Qy 146 AAGATGGCGCTGATGGCAACAGGGAGAAAGGGGACCCAGGCCAAGGCTCAGAGGCT 205

Db 310 AAGATGACGTGACGTCCTCCAAAGGAGAAAGGAGAACACAGGTCAAGGGCTCAGAGCT 369
Qy 206 TACAGGGCCCTCTGAAAGTTGGGCTCCAGGAATCCAGAGCTTCTGGGTACACAG 265
Db 370 TGAAGGCTCTCTGAAAGTAGGATACAGACCCCAAGGAAATCCGGGGTTAAAG 429
Qy 266 GACCAAGGGGCAAAAGGAGACCTCGAAAGTCCGATGCTGATAGTAGCTGGCTG 325
Db 430 GAGCAGTGGGACCAAGAGGACCGTGGGACAGAGCAATTTGATCTAGCGAAATG 489
Qy 326 CCTCAGAAAGAAAGCTCTGCAACAGAAATGGCACGTATCAAAAGTGGCTGACCTTCT 385
Db 490 ATTCAGAAATTCAGACCTACGATCAGAGCTGAGAGCCCTGAGAACTGGGTCTCTCT 549
Qy 386 CTCTGGGCAACAAGTTGGGAACAAGTTCTTCCTGACCAATGGTGAATATGACCTTTG 445
Db 550 CTCTGAGTGAAGAAAGTTGGAAGAAAGTATTTTGTGACGAGTGTAAAGAGATGAGCCTTG 609
Qy 446 AAAAGTGAAGGCTCTGTGTCAGTTTCCAGGCTCTGTGGCCACCCCAAGGAATCTG 505
Db 610 ACAGAGTGAAGGCTCTGTGTCAGTTTCCAGGCTCTGTGGCCACCTCCCAAGGAATCTG 669
Qy 506 CAGAGATGAGGACCTATCAGAAATCTCATCAAGGAGGAGCCCTCTCTGGGCACTCACTGATG 565
Db 670 AGGAATCTCGGCCATCCAGAAAGTGGCCAAAGATATTTGCTACTTGGGCATCACAGATG 729
Qy 566 AGAAGCAGAAAGGCGATTTGTGATCTGACAGAAATAGACTGACCTACACAACTGGA 625
Db 730 TGAGGGTTGAAGGCGATTTTGGAGATCTGACAGGAAACAGAGTGGCTATATAATTTGA 789
Qy 626 ACAGGGTGAACCAACAACTGCTGTGATGATGAGATGATGATGATGATGATGATGATG 685
Db 790 ATGATGGGAGCCCAACAACTGCTGTGATGATGATGATGATGATGATGATGATGATG 849
Qy 686 GCAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 745
Db 850 GCAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 809
Qy 746 GA 747
Db 910 GA 911

RESULT 11

US-09-917-800A-1710
; Sequence 1710, Application US/09917800A
; Patent No. US20020119462A1
; GENERAL INFORMATION:
; APPLICANT: Mendrick, Donna
; APPLICANT: Porter, Mark
; APPLICANT: Johnson, Kory
; APPLICANT: Castle, Arthur
; APPLICANT: Elashoff, Michael
; APPLICANT: Gene Logic, Inc.
; TITLE OF INVENTION: Molecular Toxicology Modeling
; FILE REFERENCE: 44921-5038-US
; CURRENT APPLICATION NUMBER: US/09/917,800A
; CURRENT FILING DATE: 2001-07-31
; PRIOR APPLICATION NUMBER: US 60/222,040
; PRIOR FILING DATE: 2000-07-31
; PRIOR APPLICATION NUMBER: US 60/222,880
; PRIOR FILING DATE: 2000-11-02
; PRIOR APPLICATION NUMBER: US 60/290,029
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/290,645
; PRIOR FILING DATE: 2001-05-15
; PRIOR APPLICATION NUMBER: US 60/292,336
; PRIOR FILING DATE: 2001-05-22
; PRIOR APPLICATION NUMBER: US 60/295,798
; PRIOR FILING DATE: 2001-06-06
; PRIOR APPLICATION NUMBER: US 60/297,457
; PRIOR FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: US 60/298,884

; PRIOR FILING DATE: 2001-06-19
; PRIOR APPLICATION NUMBER: US 60/303,459
; PRIOR FILING DATE: 2001-07-09
; NUMBER OF SEQ ID NOS: 1740
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1710
; LENGTH: 1037
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; FEATURE:
; OTHER INFORMATION: Genbank Accession No. US20020119462A1 NM_022704
US-09-917-800A-1710

Query Match 48.8%; Score 364.6; DB 9; Length 1037;
Best Local Similarity 70.7%; Pred. No. 1.3e-108;
Matches 483; Conservative 0; Mismatches 200; Indels 0; Gaps 0;
Qy 65 CTGTGACCTGTGAGGATGCCCAAGACCTGCGCTGCAGTGCATTCCTGTAGCTCTCCAG 124
Db 233 CCGAGACCTTAAACCGAAGGGGCTCAAAAGTAGTCCCTGTGATTCCTGTGAGTTCCTGG 292
Qy 125 GCATCAACGGCTTCCCAAGCAAGATGGGCTGTGATGTCACCAAGGAGAAAGGGGAAC 184
Db 293 CTTGGAAGGGTTCCTCAAGCAAGATGGAACACGAGCTGCCAAGGAGAAAGGGGAGAC 352
Qy 185 CAGCCAAAGGCTCAGAGGCTTACAGGGCCCCCTCGAAAAGTTGGGCTCTCAGGAAATC 244
Db 353 CGGTCAAGGCTCAGAGGCTTTCAGGGCCCCCTCGAAAAGTAGGACCTGACGGGCC 412
Qy 245 CAGGGCTTCTGGTCAACAGGACCAAGGGCCAAAGGAGAGACCTTGGAAAAGTCCGG 304
Db 413 CAGGAAATCTCTGGTCAAAAGGAGCAACGGGACCAAAAGGAGACCTGGGAGAGTGTAG 472
Qy 305 ATGTGATAGTAGCTGGCTGCCTCAGAAAGAAAGCTCTGCAACAGAAATGCAACGTA 364
Db 473 AATTGATATCTACCAACATTTAGAAATTTGAGCCCTCGGATCGGAGCTGAGAGCTA 532
Qy 365 TCAAAAAGTGGTGACCTTCTCTCTGGGCAAAAGTGGGAAACAAGTTCTTCTGACCA 424
Db 533 TGAAAAGTGGTGCTCTCTTCTATGATGAAAATTTGGAAGAAAGTACTTTCATGAGCA 592
Qy 425 ATGTGAAATANTGACCTTTGAAAAGTGAAGGCTTGTGTCAAGTTCCAGGCTCTG 484
Db 593 GTGTGAGAGGATGCCCCCTTAACAGAGCGAAGGCTCTGTCTCCGAACTCCAGGGCACTG 652
Qy 485 TGGCCACCCCAAGGATGCTGAGAGAAATGAGGCAATTCAGAAATCTCATCAAGGAGAG 544
Db 653 TGGCCACTCCAGGAATGCTGAGAAATAGGGCCATCCAGAAATGTGGCCAAAGATGTTG 712
Qy 545 CCTTCTCTGGGCATCCTGATGAGAAAGACAGAGGGGAGTTTGTGGATCTGACAGGAAATA 604
Db 713 CCTTCTTGGGCATAACGACAGAGGACTGAAAACGTTTTTTGAGGACCTGACAGGAAACA 772
Qy 605 GACTGACCTACAAACTGGAACAGAGGTGAACCCCAACAATGCTGGTTCTGATGAAGATT 664
Db 773 GAGTGGCTACACTAACTGGAATGAGGCTGAGCCCAACAATGTGGGCTCTGGGGAAGT 832
Qy 665 GTGTATTGCTACTGAAAATGGCCAGTGAATGAGCTCCCTGCTCCACCTCCCATCTGG 724
Db 833 GTGTGGTGTCTTTGACAAATGGGAAGTGAATGACGTTCTTCTGATTCCTTTTGG 892
Qy 725 CCGTCTGTGAGTTCCCTTATCTGA 747
Db 893 TAGTTGTGAATCTCTGACTGA 915

RESULT 12

US-10-388-934-107
; Sequence 107, Application US/10388934
; Publication No. US20040005547A1
; GENERAL INFORMATION:
; APPLICANT: Boess, Franziska
; APPLICANT: Suter-Dick, Laura

APPLICANT: Wolf, Detlef
TITLE OF INVENTION: BIOMARKERS AND EXPRESSION PROFILES FOR TOXICOLOGY
FILE REFERENCE: 21199
CURRENT APPLICATION NUMBER: US/10/388,934
CURRENT FILING DATE: 2003-03-14
PRIOR APPLICATION NUMBER: 02005336.9
PRIOR FILING DATE: 2002-03-14
PRIOR APPLICATION NUMBER: 02015657.6
PRIOR FILING DATE: 2002-07-17
NUMBER OF SEQ ID NOS: 862
SOFTWARE: PatentIn version 3.1
SEQ ID NO 107
LENGTH: 1068
TYPE: DNA
ORGANISM: Rattus sp.
US-10-388-934-107

Query Match 38.5%; Score 287.6; DB 17; Length 1068;
Best Local Similarity 68.1%; Pred. No. 2.6e-83;
Matches 417; Conservative 0; Mismatches 189; Indels 6; Gaps 1;

QY 142 GCAAGAGATGGCGTATGGCCACCAAGGGAGAGAAAGGGGAGACAGGCCAAGGGCTCAGA 201
DB 64 GGCAGAGAGCGGAGAGATGGGCCCAAAAGGGGAGAGAGAGAACAGGTCAAGGGCTCAGG 123
QY 202 GCGTTACAGGGCCCCCTCGAAGATGGGGCTCCAGGAAATCCAGGGCTTCTGGGTCA 261
DB 124 GCGTTGAGGGCCCTCCAGGAACTGGGGCTCCAGGAAATGTAGAGCCCTGGAAT 183
QY 262 CCAGGACCAAGGGCCCAAAAGGAGAGACCCCTGGGAAAGTCCGGATGGTATAGACCTG 321
DB 184 CAAGGACCAAGGGCCCAAAAGGAGATCGTGGAGACAGAGACCCATTGAGGTGAAGCTG 243
QY 322 GC-----TGCCTCAGAAAGAAAGCTTCGCAACAGAAATGCGACGTATCAAAAAGTGG 375
DB 244 GCAAAATGAGGAGAGAGATGAACACCCCTGAAGTCAAAACTGGAGCTAAACCAAGTTG 303
QY 376 CTGACCTTCTCTGGGCAACAGATGGGCAACAGTTCTTCTGACCAATGTGAAATA 435
DB 304 CATGCCCTTCTCCATGGGTAAAGATCTGGGAAGAGTTCTTTGTGACCAACCATGAAGG 363
QY 436 ATGACCTTTGAAAAGTGAAGGGCTTGTGTCTCAAGTTCCAGGCTCTGTGGCCACCC 495
DB 364 ATGCCCTTTTCCAAAGTCAAGGCCCTGTCTCAGAGCTCCGAGCACTGTGGCTATCCCC 423
QY 496 AGGAATGCTCAGAGATGAGGCCAATTCAGAACTCATCAGAGGAGAGCCCTTCCCTGGGC 555
DB 424 AGGAATGCTGAGGAGACCAAGGCCATCCAAAGAGTGGCTAAACCTCTGCCCTTCCCTAGGC 483
QY 556 ATCACTATGAGAGAGACAGAGGGGAGTGTGTGATCTGACAGGAAATAGACTGACCTAC 615
DB 484 ATCAAGGACGAGGTGACTGAAGGCCAATTCATGTATGTGACAGGGGGAGGCTCACCTAC 543
QY 616 ACAAACTGGAAAGAGGTGAAACCAACAATGCTGGTTCTGATGAAGATGTGATTGCTA 675
DB 544 AGCACTGGAAGAGGATGAGCCCAATGATGATGATGATGATGATGATGATGATGATGAT 603
QY 676 CTGAAAATGCGCAGTGAATGAGTCCCTGCTCCACCTCCCATCTGGCGCTCTGTGAG 735
DB 604 GTAGACACGCTCTGTGAATGATCTCTCTGCAAGCTTCCCAACAGGCTGTCTGCGAG 663
QY 736 TTCCCTATCTCA 747
DB 664 TTCCAGCCCTGA 675

RESULT 13
US-09-960-352-11785
Sequence 11785, Application US/09960352
Patent No. US20020137139A1
GENERAL INFORMATION:
APPLICANT: Warren, Wesley C.
APPLICANT: Tao, Nengbing

APPLICANT: Byatt, John C.
APPLICANT: Mathialagan, Nagappan
TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
TITLE OF INVENTION: MUSCLE AND FAT DEPOSITION
FILE REFERENCE: 16511.006/37-21(10298)C
CURRENT APPLICATION NUMBER: US/09/960,352
CURRENT FILING DATE: 2001-09-24
NUMBER OF SEQ ID NOS: 15112
SEQ ID NO 11785
LENGTH: 419
TYPE: DNA
ORGANISM: Bos taurus
OTHER INFORMATION: Clone ID: 50-LIB34-061-Q1-E1-E6
US-09-960-352-11785

Query Match 29.7%; Score 222; DB 9; Length 419;
Best Local Similarity 78.3%; Pred. No. 6e-62;
Matches 307; Conservative 0; Mismatches 75; Indels 10; Gaps 3;

QY 1 ATGTCCTGTTTCCATCATCTCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 55
DB 31 ATGTCCTGTTTACATCATCT 90
QY 56 -ACTCAGAACTGTGACCTGTGAGATGCCCAAAAGACCTGCCCTGCAAGTGTGCTCTGT 114
DB 91 GACACAGAAACAGAGAACTGTGAGAAATCCGGAAGACCTGCC---CCGTGATGCTCTGT 147
QY 115 AGCTCTCAGGATCAACGGCTTCCAGGCAAGATGGCGTGTGATGGCACCAAGGAGAA 174
DB 148 GGTCTCTCGGCATCATGTCATCCAGGCAAGATGGCGTGTGATGGTGCACCAAGGAGAA 207
QY 175 AAGGGGAAACAGGCAAGGGCTCAGAGCTTACAGGCCCCCTGGGAAAGTTGGGGCT 234
DB 208 AAGGAGAAACAGGTCAGAGGCTCAGAGGCTCGCAGGCCCCCTGGGAAAGATGGGGCT 267
QY 235 CCAGGAATCCAGGCGCTTCTGGGTACACAGGACCAAGGGCCAAAGAGGAGACCTTGA 294
DB 268 CAAGGAACGCGCAGGATCCCTGGGATACAGGACCAATAGGCCAAAGAGGAGACCTTGA 327
QY 295 AAAAGTCGGGATGGTATAGTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 353
DB 328 GAAATATGGGTGACTATATTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 385
QY 354 AATGGACCTATCAAAAAGTGGCTGACCTTCT 385
DB 388 ATTGAACAGATCAAAAAGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 419

RESULT 14
US-10-450-472-58
Sequence 58, Application US/10450472
Publication No. US20040132094A1
GENERAL INFORMATION:
APPLICANT: Boreon Pharma A/S
TITLE OF INVENTION: Combinatorial libraries of proteins having the scaffold structure.
TITLE OF INVENTION: of C-type lectin-like domains
FILE REFERENCE: BOR0003/WO
CURRENT APPLICATION NUMBER: US/10/450,472
CURRENT FILING DATE: 2003-12-08
NUMBER OF SEQ ID NOS: 91
SOFTWARE: PatentIn version 3.2
SEQ ID NO 58
LENGTH: 405
TYPE: DNA
ORGANISM: Rattus rattus
FEATURE:
NAME/KEY: CDS
LOCATION: (8) ..(400)
OTHER INFORMATION: Rat PrMBP insert
US-10-450-472-58

Query Match 24.9%; Score 186.2; DB 19; Length 405;
Best Local Similarity 68.5%; Pred. No. 3.4e-50;

	Matches	257;	Conservative	0;	Mismatches	118;	Indels	0;	Gaps	0;
QY	366	CAAAAAAGTGGCTGACCTTCTCTCTGGGCAAA	CAAAAGTTGGGAACAAGTTCTTCTCTGACCAA	425						
Db	19	CAACAAGTTGCATGCGCTTCTCCATGGGTAAAAAGTCTGGGAAGAAGTCTTTTGTGTGACCAA	78							
QY	426	TGTTGAAATAATGACCTTTGAAAAGTGAAAGGCCCTTGTTGTCAAGTTCCAGGCGCTCTGT	485							
Db	79	CCATGAAGAGTGCCTTTTCCAAAGTCAAGGCCCTGTGTCAGAGCTCCGAGGCACTGT	138							
QY	486	GGCCACCCCCAGGAATCTGTCAGAGAATGGAGCCATTCAGAATCTCATCAAGGAGGAAGC	545							
Db	139	GGCTATCCCCAAGAATGCTGAGGAGAACAGGCCATCCAGAAGTGGCTAAACCTCTGCG	198							
QY	546	CTTCTCTGGGCATCACTGATGAGAAGA	CAGAAGGCGAGTTTGTGTGATCTGCACAGGAATAAG	605						
Db	199	CTTCTCTAGGCATCACGGACGAGGTGACTGAAGGCCAAATTCATGTATGTGACAGCGGGGAG	258							
QY	606	ACTGACCTACACAAACTGGAAACGAGGTGAAACCAACAATGCTGGTTCTGATGAAGATTG	665							
Db	259	GCTCACCCTACAGCAACTGGAAAAAGGATGAGCCCAATGACCATGGCTCTGGGGAAAGACTG	318							
QY	666	TGTATTGCTACTGAAAAATGGCCAGTGGAAATGACGTGCCCTGTCTCCACTCCCTCACTCTGGC	725							
Db	319	TGTCATATATAGTAGCAACCGTCTGTGTGGAATGACATCTCTGCGCAAGCTTCCACACGGC	378							
QY	726	CGTCTGTGAGTTCCC	740							
Db	379	TGTCCTGCGAGTTCCC	393							

RESULT 15

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US-10-070-415A-45
; Sequence 45, Application US/10070415A
; Publication NO. US20040043379A1
; GENERAL INFORMATION:
; APPLICANT: HASHIMOTO, Koji
; APPLICANT: ASHIMOTO, Michie
; APPLICANT: MISHIRO, Shunji
; APPLICANT: OOTA, Yasuhiko
; TITLE OF INVENTION: DETECTION OF NUCLEIC ACID ASSOCIATED WITH DISEASE
; FILE REFERENCE: 2206330US2SRDPT
; CURRENT APPLICATION NUMBER: US/10/070,415A
; CURRENT FILING DATE: 2003-07-23
; PRIOR APPLICATION NUMBER: PCT/JPO2/02030
; PRIOR FILING DATE: 2002-03-05
; PRIOR APPLICATION NUMBER: JP 2001-090053
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: JP 2001-284112
; PRIOR FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 45
; LENGTH: 1802
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (96)..(96)
; OTHER INFORMATION: n is a nucleotide selected from a, g, c, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (649)..(649)
; OTHER INFORMATION: n is a nucleotide selected from a, g, c, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (868)..(868)
; OTHER INFORMATION: n is a nucleotide selected from a, g, c, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (884)..(884)
; OTHER INFORMATION: n is a nucleotide selected from a, g, c, or t
; FEATURE:

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Result No.	Query			DB	ID	Description
	Score	Match	Length			
C	1	678	90.8	747	9	AY413286 Homo sapi
	2	671.6	89.9	747	9	AY413287 Pan trogl
	3	668.6	89.5	1000	7	COS79105 ILLUMIGEN
	4	644.6	86.8	968	7	COS79085 ILLUMIGEN
	5	394.4	52.8	807	7	COS738739 SILL04C21
	6	352.2	47.1	735	9	AY413288 Mus muscu
	7	338.6	45.3	977	7	COS83176 ILLUMIGEN
	8	335	44.8	828	2	BF537636 602054516
	9	324.8	43.5	722	7	CK778513 965875 MA
	10	303	40.6	367	1	AV660023 AV660023
C	11	302.2	40.5	657	1	AI255533 u155f12.y
	12	301.4	40.3	1162	3	AY325174 Rattus no
	13	301.4	39.1	1162	3	AY325178 Rattus no
	14	292.4	39.1	869	1	AI195233 u162c03.x
	15	291	39.0	367	1	AV660367 AV660367
	16	290.4	38.9	789	1	AI174038 u6d7a02.x
	17	286	38.3	1565	3	AK034788 Mus muscu
	18	283.6	38.0	772	7	CO812153 AGENCOURT
	19	276	36.9	896	7	CO809875 AGENCOURT
	20	268.4	35.9	557	2	BE682267 180230 MA
C	21	268	35.9	788	4	BI147944 602312658
	22	267.6	35.8	784	1	AI173576 u6ed803.x
	23	258.4	34.6	777	1	AI194713 u155f12.x
	24	257	34.4	956	6	CA479090 AGENCOURT

D _b	1	ATGTCCTCGTTTCCATCACTCCCTCTCCTTCTCAGTATGGTGACGCGTCTTA	TCA	60
Q _y	61	GAATCTGTGACCTGTGAGGATGCCAAAGACCTGCCTGCAGTGA	TTGCCCTGTAGCTCT	120
D _b	61	GAATCTGTGACCTGTGAGGATGCCAAAGACCTGCCTGCAGTGA	TTGCCCTGTAGCTCT	120
Q _y	121	CCAGCATCAACGGCTTCCACGAGCAAGATGGCGGTGATGGCACCAAGAGGAGAAAAGGG	G	180
D _b	121	CCAGCATCAACGGCTTCCACGAGCAAGATGGCGGTGATGGCACCAAGAGGAGAAAAGGG	G	180
Q _y	181	GAAACAGGCCAAGGGCTCAGAGGCTTACAGGGCCCCCTTGAAAGTTGGGGGCTCCAGA	A	240
D _b	181	GAAACAGGCCAAGGGCTCAGAGGCTTACAGGGCCCCCTTGAAAGTTGGGGGCTCCAGA	A	240
Q _y	241	AATCCAGGGCCTTCTGGGTACACAGGACCAAAGGGCCAAAGAGGACACCTCGAAAAAGT		300
D _b	241	AATCCAGGGCCTTCTGGGTACACAGGACCAAAGGGCCAAAGAGGACACCTCGAAAAAGT		300
Q _y	301	CCGGATGGTGATAGTAGGCTCGCTCAGAAAGAAAAGCTCTGCAAAACAGAAAATGGCA		360
D _b	301	CCGGNNN		360
Q _y	361	CGTATCAAAAAAGTGGCTGACCTTCTCTGTGGCAACAAGTTGGGAAACAAGTTCTTCCTG		420
D _b	361	NNNNNNNNNNNGGCTGACCTTCTCTGTGGCAACAAGTTGGGAAACAAGTTCTTCCTG		420
Q _y	421	ACCAATFGTGAAATAATGACCTTTGAAAAGTAGGAAGCCTTGTTGTCAAGTTCCAGAGCC		480
D _b	421	ACCAATFGTGAAATAATGACCTTTGAAAAGTAGGAAGCCTTGTTGTCAAGTTCCAGAGCC		480
Q _y	481	TTCTGTGGCCACCCCAGGAATGCTGCAGAGAATGGAGCCATTAGAAATCTCATCAAGAGG		540
D _b	481	TTCTGTGGCCACCCCAGGAATGCTGCAGAGAATGGAGCCATTAGAAATCTCATCAAGAGG		540
Q _y	541	GAAGCCTTCTGGGCATCACTGATGAGAAGACAGAGGGCAGTTGTGGATCTGCACAGA		600
D _b	541	GAAGCCTTCTGGGCATCACTGATGAGAAGACAGAGGGCAGTTGTGGATCTGCACAGA		600
Q _y	601	AATAGACTGACCTTACACAACTGGAAACAGAGGTGAACCCCAATGCTGGTCTTCATGAA		660
D _b	601	AATAGACTGACCTTACACAACTGGAAACAGAGGTGAACCCCAATGCTGGTCTTCATGAA		660
Q _y	661	GATTGTGATTTGCTACTGAAAAAATGGCCAGTGGAAATGACGTCCCTGCTCCA	CCTCCCAT	720
D _b	661	GATTGTGATTTGCTACTGAAAAAATGGCCAGTGGAAATGACGTCCCTGCTCCA	CCTCCCAT	720
Q _y	721	CTGGCCGCTCTGTGAGTTCCCTATCTGA		747
D _b	721	CTGGCCGCTCTGTGAGTTCCCTATCTGA		747

RESULT 2	AY413287	747 bp	DNA	linear	GSS 17-DEC-2003
LOCUS	AY413287				
DEFINITION	Pan troglodytes MBL2 gene, VIRTUAL TRANSCRIPT, partial sequence, genomic survey sequence.				
ACCESSION	AY413287				
VERSION	AY413287.1	GI:39769249			
KEYWORDS	GSS.				
SOURCE	Pan troglodytes (chimpanzee)				
ORGANISM	Pan troglodytes				
REFERENCE	Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pan.				
AUTHORS	1 (bases 1 to 747) Clark,A.G., Glanowski,S., Nielson,R., Thomas,P., Kejariwal,A., Todd,M.A., Tanenbaum,D.M., Civello,D.R., Lu,F., Murphy,B., Ferreria,S., Wang,G., Zheng,X.H., White,T.J., Sninsky,J.J., Adams,M.D. and Cargill,M.				
TITLE	Inferring nonneutral evolution from human-chimp-mouse orthologous gene trios				
JOURNAL	Science 302 (5652), 1960-1963 (2003)				
PUBMED	14671302				
REFERENCE	2 (bases 1 to 747)				

AUTHORS Clark,A.G., Glanowski,S., Nielson,R., Thomas,P., Kejarawal,A.,
 Todd,M.A., Tanenbaum,D.M., Civello,D.R., Lu,F., Murphy,B.,
 Ferreira,S., Wang,G., Zheng,X.H., White,T.J., Shinsky,D.J.,
 Adams,M.D. and Cargill,M.

TITLE Direct Submission

JOURNAL Submitted (16-NOV-2003) Celera Genomics, 45 West Gude Drive,
 Rockville, MD 20850, USA

COMMENT This sequence was made by sequencing genomic exons and ordering
 them based on alignment.

FEATURES
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 /organism="Pan troglodytes"
 /mol_type="genomic DNA"
 /db_xref="taxon:9598"
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 /gene="MBL2"
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ORIGIN

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 Best Local Similarity 90.2%; Pred. No. 9.6e-191;
 Matches 674; Conservative 0; Mismatches 73; Indels 0; Gaps 0;

QY 1 ATGTCCCTGTTTCCATCACTCCCTCTCCTTCTCTGTAGTATGTGGCAGCGTCTTACTCA 60
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QY 61 GAAACTGTGACCTGTGAGGATGCCAAAGACCTGCCCTGCAGTGATTGCTGTAGTCT 120
 Db 61 GAAACTGTGACCTGTGAGGATGCCAAAGACCTGCCCTGCAGTGATTGCTGTAGTCT 120

QY 121 CCAGGCATCAACGGCTTCCACAGGCAGGATGGGCGTGATGCGACCAAGGGAGAAAAGGG 180
 Db 121 CCAGGCATCAACGGCTTCCACAGGCAGGATGGGCGTGATGCGACCAAGGGAGAAAAGGG 180

QY 181 GAACCAAGCCAAAGGGCTCAGAGGCTTACAGGCCCCCTTGGAAAGTTGGGCCCTCCAGGA 240
 Db 181 GAACCAAGCCAAAGGGCTCAGAGGCTTACAGGCCCTTGGAAAGTTGGGCCCTCCAGGA 240

QY 241 AATCCAGGGCCCTTCGGGTACACAGGACCAAGGGCCCAAGGGCCAGAACGCTTGGAAAAAGT 300
 Db 241 AATCCAGGGCCCTTCGGGTACACAGGACCAAGGGCCCAAGGGCCAGAACGCTTGGAAAAAGT 300

QY 301 CCGGATGTGTAGTAGTGCCTGCCTCAGAAAAGAAAGCTTGTGCAACAGAAATGCGCA 360
 Db 301 CCGGNN 360

QY 361 CGTATCAAAAAGTGGCTGACCTTCTCTCGGCCAACAAGTTGGGAAACAAGTTCTTCCTG 420
 Db 361 NNNNNNNNNNNNNNGGCTGACCTTCTCTCGGCCAACAAGTTGGGAAACAAGTTCTTCCTG 420

QY 421 ACCAATGTGAAATAATGACCTTTGAAAAGTGAAGGCCTTGTGTCAAGTTCCAGGCC 480
 Db 421 ACCAATGTGAAATAATGACCTTTGAAAAGTGAAGGCCTTGTGTCAAGTTCCAGGCC 480

QY 481 TCTGTGGCCACCCCCAGGAATGCTCAGAGATGGAGCATTGAGGATCTCATCAAGGAG 540
 Db 481 TCTGTGGCCACCCCCAGGAATGCTCAGAGATGGAGCGGTTTCGGAATCTCATCAAGGAG 540

QY 541 GAAGCCTTCTCGGGCATCACTGATGAGAAGACAGAGGGCAGTTGTGTGATCTGACAGGA 600
 Db 541 GAAGCCTTCTCGGGCATCACTGATGAGAAGACAGAGGGCAGTTGTGTGATCTGACAGGA 600

QY 601 AATAGACTGACCTACAAAATCTGGAAAGAGGGGTGAACCCAAAGTCTGGTTCTGATGAA 660
 Db 601 AATAGACTGACCTACAAAATCTGGAAAGAGGGGTGAACCCAAAGTCTGGTTCTGATGAA 660

QY 661 GATTGTGTAATCGTACTGAAAATATGCCAGTGGAAATGACGTCCCTGTCTCCACCTCCCAT 720
 Db 661 GATTGTGTAATCGTACTGAAAATATGCCAGTGGAAATGACGTCCCTGTCTCCACCTCCCAT 720

QY 721 CTGGCCGCTCTGTGAGTTCCCTATCTGA 747

[illegible]

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source	1. .968 /organism="Macaca nemestrina" /mol_type="mRNA" /strain="Indian" /db_xref="taxon:9545" /clone="IBIUM.16614" /sex="male" /lab_host="Electromax DH10B" /clone_lib="Katze MMLV" /note="Organ: liver; Vector: pDONR 222; Site 1: BsrG I; Site 2: BsrG I; Created from CloneMiner CDNA Library Construction kit (catalog #18249-029)"	LOCUS DEFINITION ACCESSION VERSION KEYWORDS SOURCE ORGANISM REFERENCE AUTHORS TITLE JOURNAL COMMENT	CO738739 SILE04c21f10f1 squirrel embryo library 1 CO738739 CO738739.1 EST. Spermophilus lateralis (golden-mantled ground squirrel) Spermophilus lateralis Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Scuridae; Sciurinae; Spermophilus 1 (bases 1 to 807) Williams,D.R., Gracey,A.Y., Martin,S.L., Hughes,M.A., Li,W., Rogers,J. and Cossins,A.R. Microarray analysis of transcriptional changes during hibernation in the golden mantled ground squirrel, Spermophilus lateralis Unpublished (2004) Contact: Andrew R. Cossins Laboratory for Environmental Gene Regulation University of Liverpool School of Biological Sciences, The Biosciences Building, Crown Street, Liverpool, United Kingdom, L69 7ZB Tel: +44 (0)151-795-4510 Fax: +44 (0)151-795-4431 Email: cossins@liv.ac.uk Vector has been trimmed from this EST. Plate: 21 row: f column: 10 Seq primer: pf1c T7 (5'-AATACGACTCACTATAGGG-3') High quality sequence stop: 807.	807 bp mRNA linear EST 29-JUL-2000
source	1. .968 /organism="Macaca nemestrina" /mol_type="mRNA" /strain="Indian" /db_xref="taxon:9545" /clone="IBIUM.16614" /sex="male" /lab_host="Electromax DH10B" /clone_lib="Katze MMLV" /note="Organ: liver; Vector: pDONR 222; Site 1: BsrG I; Site 2: BsrG I; Created from CloneMiner CDNA Library Construction kit (catalog #18249-029)"	LOCUS DEFINITION ACCESSION VERSION KEYWORDS SOURCE ORGANISM REFERENCE AUTHORS TITLE JOURNAL COMMENT	CO738739 SILE04c21f10f1 squirrel embryo library 1 CO738739 CO738739.1 EST. Spermophilus lateralis (golden-mantled ground squirrel) Spermophilus lateralis Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Scuridae; Sciurinae; Spermophilus 1 (bases 1 to 807) Williams,D.R., Gracey,A.Y., Martin,S.L., Hughes,M.A., Li,W., Rogers,J. and Cossins,A.R. Microarray analysis of transcriptional changes during hibernation in the golden mantled ground squirrel, Spermophilus lateralis Unpublished (2004) Contact: Andrew R. Cossins Laboratory for Environmental Gene Regulation University of Liverpool School of Biological Sciences, The Biosciences Building, Crown Street, Liverpool, United Kingdom, L69 7ZB Tel: +44 (0)151-795-4510 Fax: +44 (0)151-795-4431 Email: cossins@liv.ac.uk Vector has been trimmed from this EST. Plate: 21 row: f column: 10 Seq primer: pf1c T7 (5'-AATACGACTCACTATAGGG-3') High quality sequence stop: 807.	807 bp mRNA linear EST 29-JUL-2000
source	1. .968 /organism="Macaca nemestrina" /mol_type="mRNA" /strain="Indian" /db_xref="taxon:9545" /clone="IBIUM.16614" /sex="male" /lab_host="Electromax DH10B" /clone_lib="Katze MMLV" /note="Organ: liver; Vector: pDONR 222; Site 1: BsrG I; Site 2: BsrG I; Created from CloneMiner CDNA Library Construction kit (catalog #18249-029)"	LOCUS DEFINITION ACCESSION VERSION KEYWORDS SOURCE ORGANISM REFERENCE AUTHORS TITLE JOURNAL COMMENT	CO738739 SILE04c21f10f1 squirrel embryo library 1 CO738739 CO738739.1 EST. Spermophilus lateralis (golden-mantled ground squirrel) Spermophilus lateralis Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Scuridae; Sciurinae; Spermophilus 1 (bases 1 to 807) Williams,D.R., Gracey,A.Y., Martin,S.L., Hughes,M.A., Li,W., Rogers,J. and Cossins,A.R. Microarray analysis of transcriptional changes during hibernation in the golden mantled ground squirrel, Spermophilus lateralis Unpublished (2004) Contact: Andrew R. Cossins Laboratory for Environmental Gene Regulation University of Liverpool School of Biological Sciences, The Biosciences Building, Crown Street, Liverpool, United Kingdom, L69 7ZB Tel: +44 (0)151-795-4510 Fax: +44 (0)151-795-4431 Email: cossins@liv.ac.uk Vector has been trimmed from this EST. Plate: 21 row: f column: 10 Seq primer: pf1c T7 (5'-AATACGACTCACTATAGGG-3') High quality sequence stop: 807.	807 bp mRNA linear EST 29-JUL-2000

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QY 355 ATGGACGCTATCAAAAAGTGGCTGACCTTCTCTCTGGGCAACAAAGTTGGGAACAAGTTC 414
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QY 655 GATCAAGATTGTGATTGCTACTGAAAAATGGCCAGTGGATGACGTCCCTGCTCCACC 714
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QY 715 TCCCATCTGGCGTCTGTGATTCCTCC 740
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RESULT 6
AY413288 735 bp DNA linear GSS 17-DEC-2003
LOCUS Mmus musculus MBL2 gene, VIRTUAL TRANSCRIPT, partial sequence,
DEFINITION Genomic survey sequence.
ACCESSION AY413288
VERSION AY413288.1 GI:39769250
KEYWORDS GSS.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
REFERENCE 1 (bases 1 to 735)
AUTHORS Clark,A.G., Glanowski,S., Nielson,R., Thomas,P., Kejariwal,A.,
Todd,M.A., Tanenbaum,D.M., Civello,D.R., Lu,F., Murphy,B.,
Ferreira,S., Wang,G., Zheng,X.H., White,T.J., Sninsky,J.J.,
Adams,M.D. and Cargill,M.
TITLE Inferring nonneutral evolution from human-chimp-mouse orthologous
gene tricos
JOURNAL Science 302 (5652), 1960-1963 (2003)
PUBMED 14671302
REFERENCE 2 (bases 1 to 735)
AUTHORS Clark,A.G., Glanowski,S., Nielson,R., Thomas,P., Kejariwal,A.,
Todd,M.A., Tanenbaum,D.M., Civello,D.R., Lu,F., Murphy,B.,
Ferreira,S., Wang,G., Zheng,X.H., White,T.J., Sninsky,J.J.,
Adams,M.D. and Cargill,M.
TITLE Direct Submission
JOURNAL Submitted (16-NOV-2003) Celera Genomics, 45 West Gude Drive,
Rockville, MD 20850, USA
COMMENT This sequence was made by sequencing genomic exons and ordering
them based on alignment.
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Matches 479; Conservative 0; Mismatches 237; Indels 6; Gaps 2;

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QY 146 AAGATGGGCTGTATGTGCACCAAGGGAGAAAAGGGGGAAACAGGCCAAGGGCTCAGAGGCT 205
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Db 134 AAGATGGACGTGACGGTGCCCAAGGGAGAAAAGGGAGAACCCAGGTCAAGGCTCAGAGGCT 193
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QY 206 TAGAGGGCCCCCTGGAAAGTTGGGGCTCCAGGAATCCAGGGCTTCTGGGTCCACAG 265
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QY 266 GACCAAGGGCCCAAAAGAGAGACCTCGAAAAAGTCCGGATGGTGTAGTAGCTGGCTG 325
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QY 326 CCTCAGAAAAGAAAGCTCTGCAAAACAGAAATGGCAGCTATCAAAAAGTGGCTGACCTTCT 385
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Db 314 NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN 373
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Db 374 CTCTGAGTGAAGAAAGTTGGAAGAGATTTTGTGAGCAGTGTATAAAGATGAGCCTTG 433
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QY 446 AAAAAGTGAAGGCTTGTGTCAAGTTCAGAGCTCTGTGGCCACCTCCAGGAATGCTG 505
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Db 494 AGCAAACTCGGCCATCCAGAAAGTGGCCAAAGATATTGCTACTTTGGGCATCACAGATG 553
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QY 626 ACCAGGCTGAACCAACAATGCTGTGTGATCAAGATGTGTATTGTCTACTCAAAAATG 685
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Db 614 ATGTGGGAGCCCAACAACAACGCGGCGATGGGAGACGTGTGTGGTGAATCTTGGGAAATG 673
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QY 686 GCCAGTGAATGACGTCCCTGCTCCACTCCCATCTGGCCGCTGTGTGAGTTCCTCTATCT 745
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QY 746 GA 747
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Db 734 GA 735

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RESULT 7
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LOCUS ILLUMIGN MQC 44503 Katze_MVLV Macaca mulatta cDNA clone
DEFINITION IBIUW:18690 5', similar to_Bases 266 to 879 highly similar to human
Unigene Hs.102310, mRNA sequence.
ACCESSION COS83176
VERSION COS83176.1 GI:50415779
KEYWORDS EST.
SOURCE Macaca mulatta (rhesus monkey)
ORGANISM Macaca mulatta
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Cercopitheciidae;
Cercopitheciinae; Macaca.
REFERENCE 1 (bases 1 to 977)
AUTHORS Katze, M.G., Thomas, M., Korth, M., Iadonato, S.P. and Magness, C.I.
TITLE Large-scale Rhesus Macaque cDNA Sequencing
JOURNAL Unpublished (2003)
COMMENT Contact: C. Magness

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RESULT 8
BF537636
LOCUS
DEFINITION
BF537636
602054516f1 NCI_CGAP_SG2 Mus musculus cDNA clone IMAGE:4193883 5',
mRNA
828 bp
linear
EST 11-DEC-2000
ACCESSION
VERSION
BF537636.1 GI:11625004
KEYWORDS
EST, musculus (house mouse)

SOURCE	ORGANISM	Mus musculus (house mouse)
REFERENCE		Mus musculus
AUTHORS		Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi; Eumalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
TITLE		1 (bases 1 to 828)
JOURNAL		NIH-MGC http://mgc.nci.nih.gov/ .
COMMENT		National Institutes of Health, Mammalian Gene Collection (MGC) Unpublished (1999) Contact: Robert Strausberg, Ph.D. Email: cgapbs-x@mail.nih.gov Tissue Procurement: Jeffrey E. Green, M.D. cDNA Library Preparation: Life Technologies, Inc. cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Incyte Genomics, Inc. Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:

Clone distribution: not clone associated
 found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
 Plate: LLAM9526 row: 0 column: 04
 High quality sequence stop: 757.

FEATURES	source	ORIGIN
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/strain="FVB/N"		
/db_xref="taxon:10090"		
/clone="IMAGE:4193883"		
/lab_host="DH10B (T1 phage-resistant)"		
/clone_lib="NCI_CGAP SG2"		
/note="Organ: salivary gland; Vector: pCMV-SPORT6; Site 1 Note: Site 2: SalI; Cloned unidirectionally. Primer: Oligo dT. Average insert size 1.3 kb. Constructed by Life Technologies. Note: this is a NCI_CGAP Library."		
Query Match	44.8% ; Score 335; DB 2; Length 828;	
Best Local Similarity	71.5% ; Pred. No. 2.3e-84;	
Matches 511; Conservative	0; Mismatches 195; Indels 9; Gaps 5	
QY	34	CTGAGTATGGTGGCAGCGCTTTACTCAGAACTGTGACCTGTGAGAGTCCCAAAAGACC 93
Db	3	CTGTGTGGTGACAGTGGTTTATGCAGACAGCTTAAACC--GAAGGTGTTCAAAATTC 59
QY	94	TGCCCCGTGAGTCAATTTGCGTGTAGCTCTCAGGCATCAACGGCTTCCAGGCAAAAGATGGG 153
Db	60	TGCCCC--GTGGTTACCTGCGAGTTCTCAGGCCTGATGGCTTCCAGCAAAAGATGA 116
QY	154	CGTGTATGGCACCAAGGAGAAAAGGGGAACAGGCACAGGCTCAGAGCTTACAGGGC 213
Db	117	CGTGACGTTGCCAAGGAGAAAAGGGAGAACAGGTCAAGGGCTCAGAGGCTTCAAGGC 176
QY	214	CCCCCTGGAAGTGTGGGGCTTCAGGAATCCAGGGCCTTCTGGGTTCACGAGACCAAG 273
Db	177	CTCTCTGGAAGATGAGACCTCAGGACCCCGGGGATCCGGGTGTTAAAGGAGCAGTG 236
QY	274	GGCCAAAAGGAGACCTCTGGAAGAGTCGGATGGTATAGCTGGCTGCCTCAGAA 333
Db	237	GGACCGAAGGAGACCGTGGGACAGACAGAAATTGATCTAGCGAAATTGATTGAA 296

JOURNAL
MEDLINE
PUBMED
COMMENT

Proc. Natl. Acad. Sci. U.S.A. 98 (26), 15089-15094 (2001)
21625106
11752456

Contact: Zegu Han
Chinese National Human Genome Center at Shanghai
351 Guo Shoujing Road, Zhangjiang Hi-Tech Park, Pudong, Shanghai
201203, P. R. China
Tel: 86-21-50801919 (ex.45)
Fax: 86-21-50801922
Email: hanzg@hgc.sh.cn
This clone is available at CHGC in Shanghai.

FEATURES
source
1. .367
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="GLCPC05"
/tissue_type="corresponding non cancerous liver tissue"
/dev_stage="Adult"
/lab_host="SOLR"
/clone_lib="GLC"
/note="Vector: pBluescript sk(-); Site_1: EcoRI; Site_2: XhoI"

ORIGIN
Query Match 40.6%; Score 303; DB 1; Length 367;
Best Local Similarity 87.2%; Pred. No. 2.6e-75;
Matches 367; Conservative 0; Mismatches 0; Indels 54; Gaps 1;
QY 174 AAAGGGGAACAGGCCAAGGCTCAGAGCTTACAGGGCCCCCTGGAAAGTTGGGGCC 233
Db 1 AAAGGGGAACAGGCCAAGGCTCAGAGCTTACAGGGCCCCCTGGAAAGTTGGGGCC 60
QY 234 TCCAGGAAATCAGGGCTTCTGGGTCCAGGACCAAGGGCCCAAGGAGACCCCTGG 293
Db 61 TCCAGGAAATCAGGGCTTCTGGGTCCAGGACCAAGGGCCCAAGGAGACCCCTGG 120
QY 294 AAAAAGTCCGGATGGTATAGTACCTGGCTTCAGAAAGAAAGCTCTGCAACAGA 353
Db 121 AAAAAGTCCGGATGGTATAGTACCTGGCTTCAGAAAGAAAGCTCTGCAACAGA 180
QY 354 AATGCCAGTATCAAAAGTGGCTGACCTTCTCTGGGCAACAAAGTTGGGAACAGTT 413
Db 181 AATGCCAGTATCAAAAGTGGCTGACCTTCTCTGGGCAACAAAGTTGGGAACAGTT 240
QY 414 CTCTCTGACCAATGGTGAATTAATCACTTTGAAAAAGTGAAGCCCTTGTTGTCAGTT 473
Db 241 CTCTCTGACCAATGGTGAATTAATGACCTTTG----- 272
QY 474 CGAGGCTCTGTGGCCACCCAGGATGCTGCAGAGAAATGAGCCATTTCAGATCTCAT 533
Db 273 -----ATGCTGCAGAGAAATGAGCCATTTCAGATCTCAT 306
QY 534 CAAGGAGGAAGCTTCTCTGGGATCACTGATGAGAAGACAGAGGGCAGTTTGGGATCT 593
Db 307 CAAGGAGGAAGCTTCTCTGGGATCACTGATGAGAAGACAGAGGGCAGTTTGGGATCT 365
QY 594 G 594
Db 367 G 367

RESULT 11
AI255533
LOCUS
DEFINITION
u155f12.y1 Sugano mouse liver mlia Mus musculus cDNA clone
IMAGE:1886351.5, similar to gb:D11440 Mouse mRNA for P28a subunit
of Pa-reactive factor, complete (MOUSE);, mRNA sequence.
AI255533
AI255533.1 GI:3863058
EST.
MUS musculus (house mouse)
ORGANISM

REFERENCE
AUTHORS

TITLE
JOURNAL
COMMENT

The WashU-HMI Mouse EST Project
Unpublished (1996)
Contact: Marra M/Mouse EST Project
WashU-HMI Mouse EST Project
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: mouseses@watson.wustl.edu
This clone is available royalty-free through LNL; contact the
IMAGE Consortium (info@image.lnl.gov) for further information.
MGI:970675
Seq primer: custom primer used
High quality sequence stop: 488.
Location/Qualifiers
1. .657
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/mol_type="mRNA"
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/db_xref="taxon:10090"
/clone="IMAGE:1886351"
/sex="female"
/dev_stage="adult"
/lab_host="DH10B"
/clone_lib="Sugano mouse liver mlia"
/note="Organ: liver; Vector: pME18S-Fl3; Site_1: DraIII
(CAGCTGTG); Site_2: DraIII (CAGCATGTG); 1st strand cDNA
was primed with an oligo(dT) primer
[ATGTGGCTTTTCTTTTCTTTT]; double-stranded cDNA was
ligated to a DraIII adaptor [NGTTGGCTACTGG], digested
and cloned into distinct DraIII sites of the pME18S-Fl3
vector (5' site CAGCTGTG, 3' site CAGCATGTG). XhoI should
be used to isolate the cDNA insert. Size selection was
performed to exclude fragments <1.5kb. Library
constructed by Dr. Sumio Sugano (University of Tokyo
Institute of Medical Science). Custom primers for
sequencing: 5' end primer CTCTGCTCTAAAGCTGG and 3' end
primer CGACCTCGAGCTCGACACA."

ORIGIN
Query Match 40.5%; Score 302.2; DB 1; Length 657;
Best Local Similarity 71.5%; Pred. No. 5.4e-75;
Matches 397; Conservative 0; Mismatches 158; Indels 0; Gaps 0;
QY 101 CAGTGATTCCTGTAGCTCTCCAGGCATCAACGGCTTCCAGGCAAGATGGCGGTGATG 160
Db 19 CTGTGTTACTTGCAGTTCTCCAGGCTGAATGGTTCCAGGCAAGATGGACGTGAG 78
QY 161 GCACCAAGGAGAAAGGGGGAACAGGCCAAGGGCTCAGAGGCTTACAGGCCCCCTG 220
Db 79 GTGCCAAGGAGAAAGGGGGAACAGGGTCAAGGGCTCAGAGGCTTGAAGCCCTCTG 138
QY 221 GAAAGTTGGGGCTCCAGGAAATCCAGGGCTTCTGGGTCAACAGCAACAAAGGGCCAAA 280
Db 139 GAAAGTAGGACCTCAGAGCCCCCGGGGTTAAAGAGGAGAGTGGGACCGA 198
QY 281 AAGGAGACCTGGAAAGTCCGGATGGTATAGTAGCTGCTGCCTCAGAAAGAAAG 340
Db 199 AAGGAGACCTGGGGGACAGAGCAGAAATTTGATACATAGCGAAATTTGATTAATTCAG 258
QY 341 CTCTGCAACAGAAATGGCAGCTATCAAAAGTGGCTGACCTTCTCTCTGGGCAACAAG 400
Db 259 CCCTACGATCAGAGCTGAGAGCCCTGAGAACTGGGTGCTCTCTCTCTGAGTGAAGAAAG 318
QY 401 TTGGGCAACAAAGTCTTCTCTGACCAATAGTGAATATGACCTTTGAAAAAGTGAAGCCCT 460

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Db      319  TTTGGAAGAAGATATTTTGTGAGCAGTGTTHAAAGATAGGCTTTCAGAGAGTGAAGCCCC 378
Qy      461  TGTGTGTCAAGTTCACAGGCTCTGTGGCCACCCCGAGGAATGCTGCGAGAGAATGAGGCCA 520
Db      379  TGTGCTCCGAATTCACAGGCTCTGTGGCCACTCCCGAGGAATGCTGAGGAATACTCGGCCA 438
Qy      521  TTCAGATCTCATCAAGGAGGAGCCCTTCCTGGGCATCATGTGAGGAACAGACAGAGGC 580
Db      439  TCCGAAAGTGGCCCAAGATATTGCCCTACTTGGGCATCACAGATGTGAGGGTTGAAGGCA 498
Qy      581  AGTTTGTGGATCTGACAGGAATAAGACTGACCTACACAACTGGAACGAGGTTGAACCCA 640
Db      499  GCITTTGAGGATCTGACAGGAACAGAGTGGCTATTCTTAATTTGAATGGATGGAAGGCA 498
Qy      641  ACAATGCTGTTCTG 655
Db      559  ACACCACGGGGGATG 573

RESULT 12
AY325174
LOCUS      1162 bp      mRNA      linear      HTC 26-JUL-2003
DEFINITION Rattus norvegicus Ab2-011 mRNA, complete cds.
ACCESSION  AY325174
VERSION     AY325174.1 GI:33086525
KEYWORDS   HTC.
SOURCE     Rattus norvegicus (Norway rat)
ORGANISM   Rattus norvegicus
            Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
            Rattus.
REFERENCE  1 (bases 1 to 1162)
AUTHORS   Xu, C.S., Li, W.Q., Li, Y.C., Han, H.P., Wang, G.P., Chai, L.Q.,
            Yuan, J.Y., Yang, K.J., Yan, H.M., Chang, C.F., Zhao, L.F., Ma, H.,
            Wang, L., Wang, S.F., Shi, J.B., Rahman, S., Wang, Q.N. and Zhang, J.B.
            Liver regeneration after PH
            Unpublished
TITLE     Liver regeneration after PH
JOURNAL   Unpublished
REFERENCE  2 (bases 1 to 1162)
AUTHORS   Xu, C.S., Li, W.Q., Li, Y.C., Han, H.P., Wang, G.P., Chai, L.Q.,
            Yuan, J.Y., Yang, K.J., Yan, H.M., Chang, C.F., Zhao, L.F., Ma, H.,
            Wang, L., Wang, S.F., Shi, J.B., Rahman, S., Wang, Q.N. and Zhang, J.B.
            Direct Submission
TITLE     Direct Submission
JOURNAL   Submitted (16-JUN-2003) Henan Bioengineering Key Lab, Henan Normal
            University, NO. 148 Jianshe Road, Xinxiang City, Henan 453002, P.R.
            China

FEATURES             Location/Qualifiers
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                     PRANEENRALONKAVAFGLITDORTENVFEDLTGNRVITNNEGLRSLRGLPELHG
                     PSANVYTPSSSDTENIPTEETAKDGCALDPYQSLIHAATESKANSNQHYTELEK
                     QSVHISVSVFVLNQLQMFATVWSSHITRGNRSRLTGPLTHEDFPFKQADSPSLLELTG
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ORIGIN
Query Match      40.3%; Score 301.4; DB 3; Length 1162;
Best Local Similarity 70.6%; Pred. No. 1.1e-74;
Matches 401; Conservative 0; Mismatches 167; Indels 0; Gaps 0;

Qy      65  CTGTGACCTGTGAGGATGCCCAAGACAGCTGCCCTGCAGTATGCTGCTAGCTCTCCAG 124
Db      93  CCGAGACCTTAACCGAAGGGGCTCAAAAGTAGCTGCCCTGTGATTCCTGCAGTTCTCCGG 152

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Qy      125  GCATCAACGGCTTCCAGGGCAAGATGGGGCTGATGGCACCAAGGGGAGAAAAAGGGGAAC 184
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Qy      185  CAGGCCAAGGGCTCAGAGGGCTTACAGGGCCCCCTCGAAAAGTTTGGGCGCTCCAGGAAATC 244
Db      213  CGGGTCAAGGGCTCAGAGGGCTTGCAGGGCCCTCTCGGAAAAGTAGGACCTTCAGGGCCCC 272
Qy      245  CAGGGCCCTTCGGGTCAACAGGACCAAGGGCCAAAAGAGAGACCCCTGGAAAAGTCCGG 304
Db      273  CAGGGAATCCTGGGTCAAAAAGGAGCAACGGGACCAAAAAGGAGACCGTGGAGAGAGTGTAG 332
Qy      305  ATGGTATAGTAGCTGGCTGCCTCAGAAAGAAAAGCTCTGCAAAACAGAAATGTCAGCTA 364
Db      333  AATTTGATACTACCAACATTGATTAGAAATTCAGCGCCCTCGCATCGGAGCTGAGAGCTA 392
Qy      365  TCAAAAAGTGGCTGACCTTCTCTGGGCAAAACAAGTTGGGAAACAAGTCTTCTCTGACCA 424
Db      393  TGAGAAAGTGGGTGCTCTTCTATGATGAAATGTTGGAAGAGTAGTACTTTCATGAGCA 452
Qy      425  ATGGTGAATAATGACCTTTTGAAGAGTGAAGCCCTTGTGTCAAGTTCACAGGCTCTG 484
Db      453  GTGTTAGAGGATGCCCCCTTAAACAGAGCGAAGGCTCTGTCTCCGAATCCAGGGCACTG 512
Qy      485  TGGCCACCCCGAGGAATGCTGCAGAGAAATGGAGCCATTGAGAATCTCATCAAGGAGGAAG 544
Db      513  TGGCCACTCCCGAGGAATGCTGCAGAGAAATAGGCCCATCCAGAAATGTGTGGCCAAAGATG 572
Qy      545  CTTTCTCTGGGCATCACTGATGAGAAGACAGAGCGGCGAGTTTGTGGATCTGCACAGGAATA 604
Db      573  CTTTCTCTGGGCATCACTGATGAGAAGACAGAGCGGCGAGTTTGTGGAGAGCTGCACAGGAATA 632
Qy      605  GACTGACCTACACAACTGGAACGAGGG 632
Db      633  GAGTGGCTACACTTAAGTGAATGAGGG 660

RESULT 13
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LOCUS      1162 bp      mRNA      linear      HTC 26-JUL-2003
DEFINITION Rattus norvegicus Ab2-001 mRNA, complete cds.
ACCESSION  AY325178
VERSION     AY325178.1 GI:33086533
KEYWORDS   HTC.
SOURCE     Rattus norvegicus (Norway rat)
ORGANISM   Rattus norvegicus
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
            Rattus.
REFERENCE  1 (bases 1 to 1162)
AUTHORS   Xu, C.S., Li, W.Q., Li, Y.C., Ma, H., Wang, L., Wang, S.F., Han, H.P.,
            Wang, G.P., Chai, L.Q., Yuan, J.Y., Yang, K.J., Yan, H.M., Chang, C.F.,
            Zhao, L.F., Shi, J.B., Rahman, S., Wang, Q.N. and Zhang, J.B.
            Liver regeneration after PH
            Unpublished
TITLE     Liver regeneration after PH
JOURNAL   Unpublished
REFERENCE  2 (bases 1 to 1162)
AUTHORS   Xu, C.S., Li, W.Q., Li, Y.C., Ma, H., Wang, L., Wang, S.F., Han, H.P.,
            Wang, G.P., Chai, L.Q., Yuan, J.Y., Yang, K.J., Yan, H.M., Chang, C.F.,
            Zhao, L.F., Shi, J.B., Rahman, S., Wang, Q.N. and Zhang, J.B.
            Direct Submission
TITLE     Direct Submission
JOURNAL   Submitted (16-JUN-2003) Henan Bioengineering Key Lab, Henan Normal
            University, NO. 148 Jianshe Road, Xinxiang City, Henan 453002, P.R.
            China

FEATURES             Location/Qualifiers
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Schellenberg, K., Steptoe, M., Tan, P., Underwood, K., Moore, B.,
Theising, B., Wylie, T., Lennon, G., Soares, B., Wilson, R. and
Waterston, R.
The WashU-HHMI Mouse EST Project
Unpublished (1996)
Contact: Marra M/Mouse EST Project
WashU-HHMI Mouse EST Project
Washington University School of MedicineP
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800

Fax: 314 286 1810
 Email: mouseat@watson.wustl.edu
 This clone is available royalty-free through LNL; contact the
 IMAGE Consortium (info@image.lnl.gov) for further information.
 MGI:971304
 Seq primer: custom primer used
 High quality sequence stop: 428.
 Location/Qualifiers
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 /mol_type="mRNA"
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 /db_xref="taxon:10090"
 /clone="IMAGE:1886980"
 /sex="female"
 /dev_stage="adult"
 /lab_host="DH10B"
 /clone_lib="Sugano mouse liver mlia"
 /notes="Organ: liver; Vector: pME18S-FL3; Site_1: DraIII
 (CACTGTGTG); Site_2: DraIII (CACCATGTG); 1st strand cDNA
 was primed with an oligo(dT) primer
 [ATGTGGCCTTTTTTTTTTTTTTTT]; double-stranded cDNA was
 ligated to a DraIII adaptor [TGTGGCCTACTGTG], digested
 and cloned into disinct draIII sites of the pME18S-FL3
 vector (5' site CACTGTGTG, 3' site CACCATGTG). XhoI should
 be used to isolate the cDNA insert. Size selection was
 performed to exclude fragments <1.5kb. Library
 constructed by Dr. Sumio Sugano (University of Tokyo
 Institute of Medical Science). Custom primers for
 sequencing: 5' end primer CTTCGTCTCTAAAGCTGG and 3' end
 primer CGACCTGCAGCTCGACACA."

Query Match	39.1%	Score 292.4	DB 1	Length 869
Best Local Similarity	67.0%	Pred. No. 3.8e-72		
Matches 424	Conservative	0	Mismatches 208	Indels 1
115	AGCTCTCCAGGCATCAACGGCTTCCCGAGGCAAGATGGCGTGTGATGCACCAAGGGAGAA	174		
805	AGTTCTCAAGSCCTGAATGCTTACNAGCAAGATGGGACGTNACGGTGCAAAGGGAGAA	746		
175	AAGGGGNAACAGGCCCAAGGGCTCAGAGGCTTACAGGGCCCCCTCGGAAAGATTGGGGCCT	234		
745	AAGGAAGAAGCAGGCTCAAGGGCTCAGATGGCTTGCAAGCCCTCTGNNAGAGTAGGACG	686		
235	CCAGGAAATCCAGGCGCTTCTGGGTCACCGAGCCAAAGGGGCCAAAGAGGACACCTGGA	294		
685	TACAGGACCCNACGGGAATCGGGTTAAAGAGGACAGTGTACCGAAAGAGGACCGTGNG	626		
295	AAAGTCCGGATGGTATGATAGCCTGGCTGCACAGAAAGAAAAGCTCTGCAAAACAGAA	354		
625	GACAGACAGAAATTTGATCTAGTACGAATTTGATCAGAAATTCAGACCCCTACGATCAGAG	566		
355	ATGGCACGCTATCAAAAAGTGGGTGACCTTCTCTCTGGGCCAAACAGATTGGGACAGTTTC	414		
565	CTGAGAGCCCTCAGAAAAGTGGGTGCTCTCTCTCTGAGTGANAAG-TGGAAAGAGATAT	507		
415	TTCTTCGACCAATGGTGAATAATGACCTTTGAAAAGTGAAGGCCCTTGTGTGTCAAGTTTC	474		
506	TTTGTGACAGTGTTTAAAGAATGAGCCTTGACAGTGAAGGCCCTGTGCTCCGAATTC	447		
475	CAGGCGCTCTGTGGCCACCCCGCCAGGAATGTCGACGAGATGGAGCCATTCCAGATCTCATC	534		

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PAANSVYIQSSDNTPTPEETAQKGCALPDYQESLTHAAETKSSANSEHQHYTEK
QVHSIVSVSEVFLNVLQAFVTVYVASHITRGNRASTLPGTLTFPHKQADSPLSLTG
WLDLRMASPEAGCGGGLPSCSTRIVDQVGTLDITMVF"

Email: mouseest@watson.wustl.edu
 This clone is available royalty-free through LNL ; contact the
 IMAGE Consortium (info@image.llnl.gov) for further information.
 MGI:971304
 Seq primer: custom primer used
 High quality sequence stop: 428.
 Location/Qualifiers
 1. 869
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 /sex="female"
 /dev_stage="adult"
 /lab_host="DH10B"
 /clone_lib="Sugano mouse liver mlia"
 /note="Organ: liver; Vector: pME18S-FL3; Site_1: DraIII
 (CACTGTGTG); Site 2: DraIII (CACCATGTG); 1st strand cDNA
 was primed with an oligo(dT) primer
 [ATGTGGCCTTTTCTTTTCTTTT]; double-stranded cDNA was
 ligated to a DraIII adaptor [NGTTGGCCTACTGG], digested
 and cloned into distinct DraIII site of the pME18S-FL3
 vector (5' site CACTGTGTG, 3' site CACCATGTG). XhoI should
 be used to isolate the cDNA insert. Size selection was
 performed to exclude fragments <1.5kb. Library
 constructed by Dr. Sumio Sugano (University of Tokyo
 Institute of Medical Science). Custom primers for
 sequencing: 5' end primer CTTCTGTCTCTAAAGCTGG and 3' end
 primer CGACCTGCAGCTCGACACA."

ORIGIN
 Query Match 39.1%; Score 292.4; DB 1; Length 869;
 Best Local Similarity 67.0%; Pred. No. 3.8e-72;
 Matches 424; Conservative 0; Mismatches 208; Indels 1; Gaps 1.
 QY 115 AGCTCTCCAGGCATCAACGGCTTCCAGGCAAGAATGGCGTGATGGCCACCAAGGGAGAA 174
 DB 805 AGTTCTCAAGGCCTGAATGCCTACCNAGCAAGAATGGGACGTNACGGTGCAAAGGGAGAA 746
 QY 175 AAGGGGACACAGGCCAAGGGCTTCAGAGGCTTACAGGGCCCCCTCTGGAAAGTTGGGGCCT 234
 DB 745 AAGGAAGAAGCAGGTCAAGGGCTTCAGATGGCTTGCNAGGCCCTCTGNNAGAGTAGTAGGACG 686

FEATURES
 source
 65 CTGTGACCTGTGAGGATGCCCAAAAGACCTGCCCTGCAGTGAATTGCTGTAGTCTCCAG 124
 DB 93 CGGAGACCTTAAACGAAGGGCTCAAGTAGCTGCCCTGTGATTGCTGCAGTCTCCGG 152
 QY 125 GCATCAACGGCTTCCAGGCAAGAATGGGCTGTATGGCAACCAAGGGAGAAAGGGGGAAC 184
 DB 153 GCCTGAACGGCTTCCAGGCAAGAATGACACGACGGTGCACAGGGAGAAAGGGGGAAC 212
 QY 185 CAGGCCAAGGGCTCAGAGGCTTACAGGGGCCCTCCCTGGAAAGTTGGGGCCTCCAGGAATC 244
 DB 213 CGGGTCAAGGGCTCAGAGGCTTTCAGGGCCCTCTCTGGAAAGTAGGACCTGCAGGGCCCC 272
 QY 245 CAGGGCTTCTGGGTCACGAGACCAAAAGGGCCAAAAGAGAGACCTCTGGAAAAGTCCGG 304
 DB 273 CAGGGAATCCTGGTCAAAAGGAGCAACGGGACCAAAAGAGAGACCGTGGAGAGTGTAG 332
 QY 305 ATGGTGAATAGTACCTGGCTGCTCAGAAAGAAAGAGCTCTGCAACAGAAATGGACGTA 364
 DB 333 AATTTGATATCTACCAACATTTAGAAATTTGAGCCCTCGATCGAGCTGAGAGCTA 392
 QY 365 TCAAAAAGTGGCTGACCTTCTCTCTGGGCAAAACAAGTTGGGAACAAGTTCTTCCTGACCA 424
 DB 393 TGAAAAGTGGGTGCTCTCTTCTATGAGTGAATTTGGAAAAGAACTTTCATGAGCA 452
 QY 425 ATGGTGAATAATGACCTTTGAAAAGTGAAGGCCTTGTGTCAAGTTCCAGAGCCTCTG 484
 DB 453 GTCTTAGAAGGATGCCCTTTAAACAGACGAAGGCTCTGTGCTCCGAACTCCAGGGCACTG 512
 QY 485 TGGCCACCCCGAAGATGCTGCAGAGAAATGGAGCCATTGAGAAATCTCATCAAGGAGGAAG 544
 DB 513 TGGCCACTCCCGAAGATGCTTGAGAAATATAGGGCCATCCAGAAATGTGGCCAAAGATGTTG 572
 QY 545 CTTTCTCTGGGCATCACTGATAGAGAACAAGGGCAGTTTGTGATCTGACAGGAATA 604
 DB 573 CTTTCTTGGGCATACGGAACACAGAGGACTGAAAACGTTTTTTTGGAGCACTGACAGGAACA 632
 QY 605 GACTGACCTACACAACTGGAACGGG 632
 DB 633 GAGTGGCGCTACACTAACTGGAATGAGGG 660

RESULT 14	
AL195233/c	
LOCUS	Al195233 linear EST 14-OCT-1998
DEFINITION	IMAGE:U62C03.x1 Sugano mouse liver mlia Mus musculus cdna clone IMAGE:1896980 3' similar to gb:D11422.cdsl MANNULOSE-BINDING PROTEIN c PRECURSOR (HUMAN); gb:D11440 Mouse mRNA for p28a subunit of Rα-reactive factor, complete (MOUSE) ; mRNA sequence.
ACCESSION	Al195233
VERSION	Al195233.1 GI:3747839
KEYWORDS	EST.
SOURCE	Mus musculus (house mouse)
ORGANISM	Mus musculus
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 869) Marra,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T., Geisel,S., Kucaba,T., Lacy,M., Le,M., Martin,J., Morris,M.,

```

Db 446 CAGGCTCTGTGGCCACTCCAGGAATGCTCAGGAAACTCGGCCATCCAGAAAGTGGCC 387
Qy 535 AAGAGGAAGCCTTCTCTGGGCATCACTGATGAGAAGACAGAAAGGCGAGTTTGTGGATCTG 594
Db 386 AAAGATATTCCTACTTCTGGGCATCACAGATGTGAGGGTTGAAGCAGTTTGTAGGATCTG 327
Qy 595 ACAGGAATAGACTGACCTACACAACTGGAACGAGGTGAACCAACATGCTGGTTCT 654
Db 326 ACAGGAACAGAGTGCCTATCTACTAATTTGGATGATGGGAGCCCAACACACGGCGAT 267
Qy 655 GATGAAGATGTGTATTCTACTGAAATGGCCAGTGGATGAGTCCCTGCTCCACC 714
Db 266 GGGGAAGACTGTGTGGTGTCTTGGGAAATGGCAAGTGGACGATGCCCTGCTCTGAC 207
Qy 715 TCCCATCTGGCGTCTGTGATTCCTCTATCTGA 747
Db 206 TCTTTTGGCAATCTGTGAATCTCTGACTGA 174

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RESULT 15
LOCUS AV660367 367 bp mRNA linear EST 16-JAN-2002
DEFINITION AV660367 GLC Homo sapiens cDNA clone GLCGH07 3', mRNA sequence.
ACCESSION AV660367
VERSION AV660367.1 GI:9881381
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
XU,X., Huang,J., Xu,Z., Qian,B., Zhu,Z., Yan,Q., Cai,T., Zhang,X.,
Xiao,H., Qu,J., Liu,F., Huang,Q., Cheng,Z., Li,N., Du,J., Hu,W.,
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21625106
PUBMED 11752456
COMMENT Contact: Zequang Han
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This clone is available at CHGC in Shanghai.
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